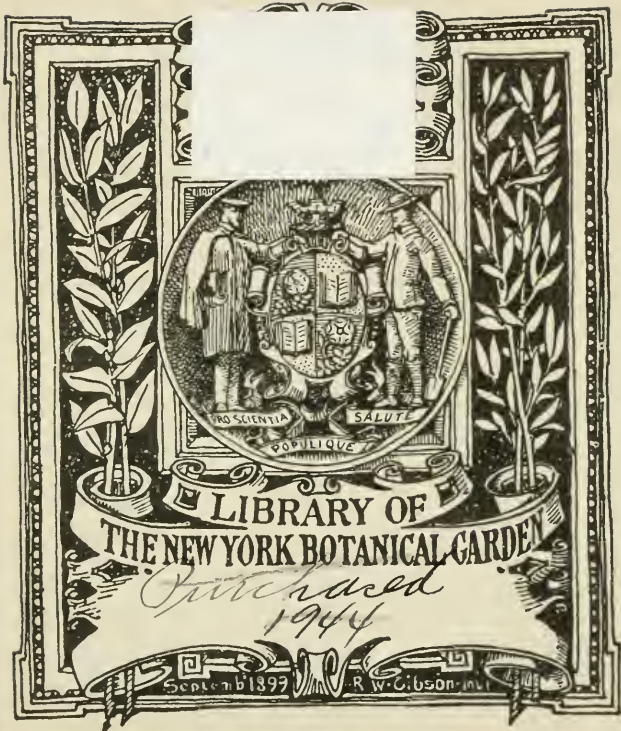


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EVERHART MUSEUM



NATURAL
HISTORY



SCIENCE
AND ART

SCRANTON,
PENNSYLVANIA.



FLORA

of

Northeastern Pennsylvania

By ALFRED TWINING





ALFRED TWINING
IN NAY AUG PARK, SCRANTON PA., OCTOBER, 1915

The Check List of the Flora of
this section of Pennsylvania is
respectfully and affectionately
dedicated to my long time
friend, the late

Dr. Isaiah F. Everhart,

founder of the Everhart Museum
of Natural History, Science and
Art, erected in Nay Aug Park
and presented to the City of
Scranton, Pa.

FLORA *of* NORTHEASTERN PENNSYLVANIA

By ALFRED TWINING
JUN

Published by
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PREFACE

In accordance with the expressed wish of the late Doctor Everhart, as a supplement to the collection of woods and seeds of Lackawanna County, which he was making at the time he was stricken with his last illness, labeled and now on exhibition in the Museum, I presented my Herbarium of over 2,000 specimens to the institution which bears its founder's name. Incorporated in the Herbarium is a practically complete collection of the Flora of this part of the state, particularly of Lackawanna and Luzerne Counties.

In further carrying out the wishes of Doctor Everhart I have prepared this check list of the Flora of the above region for publication.

A preliminary list of the plants in the Lackawanna and Wyoming Valleys, of which Prof. W. R. Dudley, then of Cornell University, was the author, was published under the auspices of the Lackawanna Institute of History and Science, in 1887. This volume named 769 species as reported and classified. In 1892, Professor Dudley, then connected with the Leland Stanford University of California, and Prof. Charles O. Thurston of the Wyoming Seminary Scientific Department combined their personal notes, observations and collections with those of other students of local botanical research and issued a very complete catalog of "The Flowering Plants and vascular Cryptogams found in and near the Lackawanna and Wyoming Valleys." This volume contained the names of 107 orders and 974 species, to which there were later addenda of 88 species,—a total of 1,062. Of this number several have since been considered doubtful, while others have become exterminated through forest fires or advance of cultivated areas and are not represented in this check list.

The check list herewith presented contains the names of 115 orders and 1,534 species. The specimens have very largely

been collected by myself, mounted and preserved in the "Alfred Twining Herbarium" in the Everhart Museum. With few exceptions every plant named in this Flora is represented in the above Herbarium. There is also in this Herbarium a collection of Filices and fern allies,—an almost complete representation of the ferns of the United States, and many foreign ferns with rare and odd varieties and forms. The Orchidaceae, Liliaceae and Violaceae of the eastern half of the United States are largely represented as well as the Cyperaceae and Gramineae. The classifications of the more important genera have been verified by such expert authority as Prof. Charles S. Sargent, the late Dr. Thomas C. Porter, the late Dr. Thomas Morong, the late Prof. James A. Graves, and Prof. E. Brainerd.

Outdoor recreation being a necessity, as well as a great pleasure, I began late in 1900 the collection of the flora over practically the same range of territory covered by Professors Dudley and Thurston, as well as amateur collectors reported in the 1892 Flora. In preparing the appended list of plants I have followed the classification and nomenclature of the seventh edition of Gray's Manual. The plants recorded in this Flora which are not represented in Gray's Manual are marked with a star and the proper authority is indicated.

In the revision, preparation for publication, proof-reading and effort to have the check list as nearly correct and authoritative as possible, I have had the kindly and generous assistance of Prof. R. N. Davis, Curator of the Everhart Museum, whose love of the woods and plant life first led me to the study and collection of our local flora.

ALFRED TWINING.

INTRODUCTION

A flora of 1,200 species in a limited area is considered rich; when 334 species are added to this number there is cause for wonder to botanists not familiar with the topography of the country from which the local flora has been collected and preserved in the Herbarium in the Everhart Museum. The heart of the Northern Alleghenies, where the tributaries of the Susquehanna, Lehigh and Delaware Rivers have their rise, is a beautiful country with a variety of soil and varying altitudes. We have many lakes, creeks, tangled swamps and bogs, dry barrens, rocks, valleys, plains and mountain peaks, with drift heaps of the glacial age. This varied topography affords local characteristic types as well as the plants common throughout the Appalachian region. On Bald Mount, Elk Hills, Penobscot, Pocono and Tilbury Knobs, and the Pocono Plateau and marshes we have rare plants of the glacial age. We have Atlantic slope species whose western limits of distribution are within our border as well as Southern and Southwestern species which extend no farther north or northeast. Over fifty-five northern species, mainly heaths and sedges, are found here which do not extend south of our territory.

Among the more notable species included in our flora, and represented in the "Alfred Twining Herbarium," are the *Arceuthobium pusillum*, *Potentilla tridentata*, *Linnaea borealis*, *Vaccinium canadense*, *Opuntia vulgaris*, *Picea mariana*, *Menyanthes trifoliata*, *Liatrix scariosa*, *Ledum latifolium*, *Rhodora canadense*, *Andromeda polifolia*, *Kalmia glauca*, *Rhododendron viscosum*, *Gaylussacia frondosa*, *Chiogenes hispidula*, *Orontium aquaticum*, *Melanthium latifolium*, *Amianthium muscaetoxicum*, *Arenaria groenlandica*, *Cunila mariana*, *Pinus inops*, *Sedum roseum*, *Asplenium montanum*, and *Lycopodium selago*.

While the leguminous species are rare on the Pocono they are abundant in the two valleys. Quite a number of plants which predominate in the country immediately outside the Lackawanna

Valley are quite rare or entirely lacking in the valley. Among these are teasel, hepatica, dicentra, claytonia, bloodroot, barberry, walking fern and some of the violets. A number of Southern and Western species have of late years been introduced in this region through the railroads. Weeds that were rare in Lackawanna County are now becoming pests.

Prof. C. S. Sargent, Director of the famous Arnold Arboretum, a world authority on trees and shrubs, after three botanical visits to Scranton, expressed the opinion that there are at least forty species or forms of the *Crataegus* (hawthorn) in the Lackawanna Valley. Professor Sargent has classified twenty-seven of these, giving the handsomest of our local species the name of *Crataegus twiningi*. This species, an *Intricatae*, is described at length in the proceedings of the Academy of Natural Sciences of Philadelphia, Vol. LXII, Part I, 1910, pages 230 and 231. Professor Sargent adds to the description: "This species is named for its discoverer, Mr. Alfred Twining of Scranton, who first called attention to the richness of Lackawanna County in forms of *Crataegus*."

The following interesting points and altitudes from which the greater part of the Flora in this check list was gathered are: The beautiful double domes of the Elk Mountains (south dome 2,575 feet, north dome 2,700 feet), exceeded only a few feet by the Blue Knob, the highest mountain in the State; Bald Mount, 2,385; Clarks Summit, 1,239; Elmhurst, 1,397; Moscow, 1,555; Gouldsboro, 1,890; Tobyhanna, 1,929; Ararat Summit, 2,023; Uniondale, 1,693; Carbondale, 1,079; Archbald, 965; Pittston, 573; Kingston, 550; Crystal Lake, 1,755; Campbell's Ledge (Dial Rock), 1,302; Penobscot Knob, 2,220; Pocono Knob, 2,225; Ararat Peak, 2,600; Sugar Loaf, 2,450; Mount Anonymous, 1,596; Scrub Oak, 2,092; Big Shiny, 2,320; Moosic Mountain Range, from 2,000 to 2,120.

ALFRED TWINING.

Scranton, Pa.,
Feb. 1, 1917.

DIVISION I. PTERIDOPHYTA

(Ferns and Fern Allies)

POLYPODIACEAE (Fern Family)

POLYPODIUM L. (Polypody)

- 1 P. VULGARE L. (Polypody.) Common on rocks.
- 2 P. VULGARE L., VAR. CRISTATUM Moore. Susquehanna. Rare.

PHEGopteris Fee. (Beech Fern)

- 3 P. POLYPODIOIDES Fee. (Long Beech Fern.) Frequent in Abingtons.
- 4 P. HEXAGONOPTERA Fee. (Broad Beech Fern.) Elk Mountain, Spring Brook. West Mountain near Continental mine, *Mrs. William Thornton*.
- 5 P. DRYOPTERIS Fee. (Oak Fern.) Gravel Pond, Lily Lake.

ADIANTUM L. (Maidenhair)

- 6 A. PEDATUM L. Frequent.

PTERIS L. (Brake or Bracken)

- 7 P. AQUILINA L. (Common Brake.) Common.
- 8 P. AQUILINA, VAR. PSEUDOCAUDATA Clute. Spring Brook.

PELLAEA Link. (Cliff Brake)

- 9 P. ATROPURPUREA Link. Campbell's Ledge, cliff near Laurel Run Station.

CRYPTOGRAMMA R. Br. (Rock Brake)

- 10 C. STELLERI Prantl. Paupack gorge near Hawley, *Dr. L. W. Ross*.

WOODWARDIA Sm. (Chain Fern)

- 11 W. VIRGINICA Sm. Susquehanna, *J. A. Graves*. Rare.

ASPLENIUM L. (Spleenwort)

- 12 A. TRICHOMANES L. Frequent on rocks.
- 13 A. PLATYNEURON Oakes. Frequent.
- 14 A. PLATYNEURON, VAR. SERRATUM Miller. Tunkhannock.
- 15 A. MONTANUM Willd. Bald Mount cliff. Rare.
- 16 A. ANGUSTIFOLIUM Michx. Davidson's farm in Greenfield Township. *Mrs. Davidson*. This is the only station known within our limits.
- 17 A. ACROSTICHOIDES Sw. Spring Brook, Davidson farm, Greenfield township.
- 18 A. FILIX-FEMINA Bernh. (Lady Fern.) Big Birdseye.

CAMPTOSORUS Link. (Walking Leaf)

- 19 C. RHIZOPHYLLUS Link. Lake Scranton gorge, Elk Mountain, Campbell's Ledge. Not rare in Abingtons.

POLYSTICHUM Roth.

- 20 P. ACROSTICHOIDES Schott. (Christmas Fern.) Common.
- 21 P. ACROSTICHOIDES, FORM RAMOSA Clute. Rocky Glen, near Factoryville.*
- 22 P. ACROSTICHOIDES, VAR. INCISUM Gray. Birdseye, Spring Brook.
- 23 P. ACROSTICHOIDES, VAR. TRUNCATUM. Found and named by Prof. James A. Graves at Susquehanna, Pa.*
- 24 P. BRAUNII Fee. Rocky Glen, in southeastern part of Sullivan County, adjoining Luzerne. Reported by J. P. C. Griffith in 1878.

ASPIDIUM Sw. (Shield Fern or Wood Fern)

- 25 A. THELYPTERIS Sw. Marshy places. Common.
- 26 A. SIMULATUM Davenp. Monroe County.
- 27 A. NOVEBORACENSE Sw. Rich woods.
- 28 A. MARGINALE Sw. Frequent.
- 29 A. GOLDIANUM Hook. Sugarloaf Mountain. Mrs. C. P. Davidson, on farm, Greenfield Township, Lackawanna County.
- 30 A. BOOTHII Tuckerm. Susquehanna.
- 31 A. CRISTATUM Sw. Atherton's Pond, Hawley, Paupack, Lehigh Pond.
- 32 A. CRISTATUM, FORM MARGINALE Dav. Orson, on O. and W. railroad. (See Clute's Fern Collector's Guide, page 44.)*
- 33 A. SPINULOSUM Sw. Type form at Spring Brook.
- 34 A. SPINULOSUM, VAR. INTERMEDIUM Eaton. Common.
- 35 A. SPINULOSUM, VAR. DILATATUM Hook. Sugarloaf Mountain.

CYSTOPTERIS Bernh. (Bladder Fern)

- 36 C. BULBIFERA Bernh. Spring Brook, Moosic, Waverly, Susquehanna. Rocky Glen, near Factoryville, Anna Wilcox.
- 37 C. FRAGILIS Bernh. Common on shaded cliffs.

WOODSIA R. Br.

- 38 W. ILVENSIS R. Br. Elk Mountain, Bald Mountain.
- 39 W. OBTUSA Torr. Campbell's Ledge.

DICKSONIA L' Her. (Hay-scented Fern)

- 40 D. PUNCTILOBULA Gray. Common.
- 41 D. PUNCTILOBULA, VAR. FURCATA Clute. Spring Brook, Moosic.*

ONOCLEA L. (Sensitive Fern)

- 42 O. SENSIBILIS L. Common.
- 43 O. SENSIBILIS, VAR. OBTUSILOBATA Torr. Lehigh Pond, Gouldsboro, Moosic Lake glen.
- 44 O. STRUTHIOPTERIS Hoffm. Near Taylor, Dalton, Fleetville, Uniondale.

SCHIZAEACEAE (Curly Grass Family)

LYGODIUM Sw. (Climbing Fern)

- 45 L. PALMATUM Sw. Near Vandling toward Carbondale east of street car line. The only station reported in Lackawanna County, C. H. Scharar. Naomi Pines, Prof. R. N. Davis.

OSMUNDACEAE (Flowering Ferns)

OSMUNDA L.

- 46 O. REGALIS L. (Royal Fern.) Not rare.
- 47 O. CLAYTONIANA L. (Interrupted Fern.) Common.
- 48 O. CINNAMOMEA L. (Cinnamon Fern.) Common.
- 49 O. CINNAMOMEA, VAR. FRONDOSA Gray. Eddy Creek. Rare.

OPHIOGLOSSACEAE (Adder Tongue)

OPHIOGLOSSUM L.

- 50 O. VULGATUM L. *Mrs. C. P. Davidson*, farm in Greenfield Township, Lackawanna County. Long Pond, Luzerne County. Rare.

BOTRYCHIUM (Moonwort)

- 51 B. SIMPLEX Hitch. Naomi Pines. Rare.
- 52 B. LANCEOLATUM, VAR. ANGUSTISEGMENTUM Pease and Moore. Stillwater, Lake Scranton gorge. Rare.
- 53 B. RAMOSUM Aschers. Stillwater. Rare.
- 54 B. OBLIQUUM Muhl. Birdseye, Spring Brook. Common.
- 55 B. OBLIQUUM, VAR. DISSECTUM Clute. Waverly, Birdseye, not rare along O. and W. railroad.
- 56 B. VIRGINIANUM Sw. (Rattlesnake Fern.) Common.

EQUISETACEAE

EQUISETUM L. (Horsetail)

- 57 E. ARVENSE L. Common.
- 58 E. ARVENSE FORM DECUMBENS W. N. Clute. Factoryville along railroad tracks. Common. (See Clute's Ferns and Fern Allies.) Railroad embankments.*
- 59 E. ARVENSE FORM DIFFUSUM Clute. La Plume. Common along railroad embankments.*
- 60 E. SYLVATICUM L. Orson. Kingston, Rocky Glen.
- 61 E. FLUVIATILE L. Wyoming, Pocono. Not common.
- 62 E. HYEMALE L. (Scouring Rush.) Wyoming, Spring Brook. Along creek near Fleetville.

LYCOPODIACEAE

LYCOPODIUM L. (Club Moss)

- 63 L. SELAGO L. Delaware Water Gap. Rare.
- 64 L. LUCIDULUM Michx. Lake Scranton woods. Frequent.
- 65 L. INUNDATUM L. Spring Brook, Moscow.
- 66 L. INUNDATUM, VAR. BIGELOVII Tuck. Moosic Lake.
- 67 L. ANNOTINUM L. Moscow. Rare.
- 68 L. ANNOTINUM, VAR. ACRIFOLIUM. Reported by *Prof. J. W. Harshberger* on the Pocono Plateau July 25, 1904. *Rhodora*, June, 1915.*
- 69 L. CLAVATUM L. Frequent.
- 70 L. OBSCURUM L. Common.

- 71 *L. OBSCURUM*, VAR. *DENDROIDEUM* Michx. Common.
- 72 *L. COMPLANATUM* L. Frequent.
- 73 *L. TRISTACHYUM* Pursh. Starlight.

SELAGINELLACEAE

SELAGINELLA Beauv.

- 74 *S. RUPESTRIS* Spring. Bald Mount, Campbell's Ledge.
- 75 *S. APUS* Spring. Hanover Township.

ISOETES L. (Quillwort)

- 76 *I. ECHINOSPORA* Dur. Carmalt Lake, Susquehanna County.
- 77 *I. ENGELMANNI* A. Br. River road to Hallstead, Susquehanna.

DIVISION II. SPERMATOPHYTA

TAXACEAE (Yew Family)

TAXUS L.

- 78 *T. CANADENSIS* Marsh. (Ground Hemlock.) Not rare.

PINACEAE (Pine Family)

PINUS L.

- 79 *P. STROBUS* L. (White Pine.) Frequent.
- 80 *P. RIGIDA* Mill. (Pitch Pine.) Common.
- 81 *P. VIRGINIANA* Mill. (Jersey or Scrub Pine.) Barren hills in Wyoming Valley, back of Plymouth, Buttonwood.
- 82 *P. RESINOSA* Ait. (Red Pine.) Rare. One tree at Wyoming Monument. *Prof. Dudley* reports it along cliffs of Susquehanna river. *Prof. Thurston* reported a tree at Campbell's Ledge.

LARIX Adans. (Larch)

- 83 *L. LARICINA* Koch. (Tamarack.) Atherton's Pond, Bigelow Pond, Lehigh Pond.

PICEA (Spruce)

- 84 *P. RUERA* Dietr. (Red Spruce.) Abundant on the Pocono Plateau.
- 85 *P. MARIANA* B. S. P. (Black Spruce.) Pocono swamps.

ABIES Hill. (Fir)

- 86 *A. BALSAMEA* Mill. (Balsam Fir.) Pocono swamps, swamp near Honesdale.

TSUGA Carr. (Hemlock)

- 87 *T. CANADENSIS* Carr. Common.

THUJA L. (Arbor Vitae)

- 88 *T. OCCIDENTALIS* L. Rare as an escape. Nicholson.

JUNIPERUS L. (Juniper)

- 89 J. COMMUNIS L. Stroudsburg, Delaware Water Gap.
90 J. VIRGINIANA L. (Red Cedar.) One tree along road from Dunmore to Throop, Campbell's Ledge, Waverly. Not common.

TYPHACEAE (Cat-Tail Family)

TYPHA L.

- 91 T. LATIFOLIA L. (Common Cat-Tail.) Common.

SPARGANIACEAE (Bur-Reed Family)

SPARGANIUM L.

- 92 S. EURYCARPUM Engelm. (Broad-Fruited Bur-Reed.) Kingston pond holes.
93 S. AMERICANUM, VAR. ANDROCLADUM Fernald and Eames. Starlight.
94 S. ANGUSTIFOLIUM Michx. (Narrow-Leaved Bur-Reed.) Frequent.
95 S. SIMPLEX Huds. (Simple-Stemmed Bur-Reed.) Common.

NAJADACEAE (Pondweed Family)

POTAMOGETON L. (Pondweed)

- 96 P. NATANS L. Common in ponds. Hunlock's Creek.
97 P. OAKESIANUS Robbins. Lake Winola.
98 P. EPIHYDRUS Raf. Tobyhanna, outlet of Lehigh Pond.
99 P. AMERICANUS C. & S. (Long-Leaved Pondweed.) Pocono Plateau, *Dr. J. W. Harshberger.*
100 P. AMPLIFOLIUS Tuckerm. Lake Winola.
101 P. HETEROPHYLLUS Schreb. Lake Winola.
102 P. PERFOLIATUS L. Susquehanna.
103 P. OBTUSIFOLIUS Mertens and Koch. Howell's Pond, Wayne County.
104 P. PUSILLUS L. Stevenson's Pond, Waverly, Crooked Lake, Lake Winola.
105 P. LATERALIS Morong. Mount Pocono.
106 P. VASEYI Robbins. Pond near base of Campbell's Ledge.
107 P. FOLIOSUS Raf. Factoryville.
108 P. HYBRIDUS Michx. Monroe County, *Prof. Porter.*
109 P. DIMORPHUS Raf. Preston Park.
110 P. ROBBINSII Oakes. Gravel Pond.

ZANNICHELLIA L. (Horned Pondweed)

- 111 Z. PALUSTRIS L. Birdseye, Spring near Lake Scranton.

NAJAS L. (Naiad)

- 112 N. FLEXILIS L. Lake Winola, Lake Sheridan.

JUNCAGINACEAE (Arrow-Grass Family)

SCHEUCHZERIA L.

- 113 S. PALUSTRIS L. Tobyhanna, Ararat Marsh.

ALISMACEAE (Water-Plantain Family)

SAGITTARIA L. (Arrow-head)

- 114 *S. LATIFOLIA* Willd. Kingston.
- 115 *S. ENGELMANNIANA* J. G. Sm. Howell's Pond.
- 116 *S. HETEROPHYLLA* Pursh. Kingston.
- 117 *S. HETEROPHYLLA*, VAR. *ANGUSTIFOLIA* Engelm. White Haven.
- 118 *S. GRAMINEA* Michx. Lake Minnetaka, Long Pond.

ALISMA L. (Water Plantain)

- 119 *A. PLANTAGO-AQUATICA* L. Not rare.

HYDROCHARITACEAE (Frog's Bit Family)

ELODEA Michx. (Water-Weed)

- 120 *E. CANADENSIS* Michx. Not uncommon.

VALLISNERIA L. (Eel Grass)

- 121 *V. SPIRALIS* L. Lake Winola.

LIMNOBIUM Richard. (American Frog's Bit)

- 122 *L. SPONGIA* Richard. Howell's Pond, Wayne County; Starlight.

GRAMINEAE (Grass Family)

ANDROPOGON L. (Beard Grass)

- 123 *A. SCOPARIUS* Michx. Common in dry soil. Mountain Park.
- 124 *A. FURCATUS* Muhl. Common on mountains. Plymouth.

SORGHASTRUM Nash.

- 125 *S. NUTANS* Nash. Fairview.

DIGITARIA Scop. (Finger Grass)

- 126 *D. HUMIFUSA* Pers. Common.
- 127 *D. SANGUINALIS* Scop. (Crab Grass.) Common.

PASPALUM L.

- 128 *P. SETACEUM* Michx. Taylor.

PANICUM L. (Panic Grass)

- 129 *P. CAPILLARE* L. (Old-Witch Grass.) Common.
- 130 *P. MILIACEUM* L. (European Millet.) Nay Aug Park.
- 131 *P. DICHOTOMIFLORUM* Michx. (Spreading Panicum.) Pocono Plateau,
Dr. J. W. Harshberger.
- 132 *P. VIRGATUM* L. (Switch Grass.) Common along rivers.
- 133 *P. AGROSTOIDES* Spreng. Susquehanna River, Pittston.
- 134 *P. DEPAUPERATUM* Muhl. Frequent.
- 135 *P. DICHOTOMUM* L. Campbell's Ledge, Susquehanna.
- 136 *P. BARBULATUM* Michx. Gouldsboro.
- 137 *P. BOREALE* Nash. (Northern Panicum.) Pocono Summit, *Prof. Porter.*

- 138 P. COLUMBIANUM Scribn. North of Pocono Manor, Monroe County.
- 139 P. SPHAEROCARPON Ell. Stroudsburg.
- 140 P. XANTHOPHYSUM Gray. Bald Mount, Elk Mountain.
- 141 P. SCOPARIUM Lam. Susquehanna, *Prof. Graves*.
- 142 P. CLANDESTINUM L. Susquehanna.
- 143 P. LATIFOLIUM L. Occasional.

ECHINOCHLOA Beauv.

- 144 E. CRUSGALLI Beauv. (Barnyard Grass.) Common.

SETARIA Beauv. (Bristly Foxtail Grass)

- 145 S. GLAUCA Beauv. Hawley.
- 146 S. VIRIDIS Beauv. Susquehanna, *Prof. Graves*.
- 147 S. ITALICA Beauv. (German Millet.) Susquehanna, *Prof. Graves*.

CENCHRUS L. (Hedgehog Grass)

- 148 C. TRIBULOIDES L. (Sandbur.) Linden Street, O. and W. Yard, Scranton.

ZIZANIA L. (Water or Indian Rice)

- 149 Z. PALUSTRIS L. Mount Pleasant Fish Hatchery.

LEERSIA Sw. (Cut-Grass or White Grass)

- 150 L. VIRGINICA Willd. Campbell's Ledge.
- 151 L. ORYZOIDES Sw. Frequent.

PHALARIS L. (Canary Grass)

- 152 P. CANARIENSIS L. O and W. Yard, Scranton.
- 153 P. ARUNDINACEAE L. Mountain ponds.

ANTHOXANTHUM L. (Sweet Vernal Grass)

- 154 A. ODORATUM L. Common.

MILIUM L. (Millet Grass)

- 155 M. EFFUSUM L. Occasional.

ORYZOPSIS Michx. (Mountain Rice)

- 156 O. PUNGENS Hitchc. Bald Mount.
- 157 O. ASPERIFOLIA Michx. Moosic Lake.
- 158 O. RACEMOSA Ricker. Mocanaqua.

ARISTIDA L. (Triple-Awned Grass)

- 159 A. DICHOTOMA Michx. (Poverty Grass.) Sandy soil.
- 160 A. PURPURASCENS Poir. Campbell's Ledge.

MUHLENBERGIA Schreb.

- 161 M. SOBOLIFERA Trin. Taylor ledges.
- 162 M. TENUIFLORA BSP. Rocky woods.
- 163 M. SYLVATICA Torr. Taylor.
- 164 M. MEXICANA Trin. Frequent.
- 165 M. RACEMOSA BSP. Mountain tops.
- 166 M. SCHREBERI J. F. Gmel. (Nimble Will.) Fairview.

BRACHYELYTRUM Beauv.

- 167 *B. ERECTUM* Beauv. Moosic Lake.

PHLEUM L. (Timothy, Herd's Grass)

- 168 *P. PRATENSE* L. Common.

ALOPECURUS L. (Foxtail Grass)

- 169 *A. GENICULATUS* L. Wyoming Swamp.

SPOROBOLUS R. Br. (Rush Grass)

- 170 *S. VAGINIFLORUS* Wood. Sterile fields.

AGROSTIS L. (Bent Grass)

- 171 *A. ALBA* L. Frequent.

- 172 *A. ALBA*, VAR. *VULGARIS* Thurb. (Red Top.) Common.

- 173 *A. HYEMALIS* BSP. (Hair Grass.) Pocono, Ararat.

- 174 *A. PERENNANS* Tuckerm. (Thin Grass.) Frequent in woods.

- 175 *A. PERENNANS*, VAR. *ELATA* Hitchc. Clarks Summit.

CALAMAGROSTIS Adans. (Reed Bent Grass)

- 176 *C. PORTERI* Gray. Naomi Pines, Moosic Lake.

- 177 *C. CANADENSIS* Beauv. (Blue-Joint Grass.) Frequent.

- 178 *C. CINNOIDES* Barton. Moosic Lake.

CINNA L. (Wood Reed Grass)

- 179 *C. ARUNDINACEA* L. Low woods.

- 180 *C. LATIFOLIA* Griseb. Not uncommon.

HOLCUS L. (Velvet Grass)

- 181 *H. LANATUS* L. Common.

SPHENOPHOLIS Scribn.

- 182 *S. NITIDA* Scribn. Campbell's Ledge.

- 183 *S. PALUSTRIS* Scribn. Susquehanna.

KOELERIA Pers.

- 184 *K. CRISTATA* Pers. Campbell's Ledge.

DESCHAMPSIA Beauv.

- 185 *D. FLEXUOSA* Trin. (Common Hair Grass.) Frequent on dry banks in woods.

- 186 *D. CAESPITOSA* Beauv. Monroe County, *Prof. Porter*.

AVENA L. (Oat)

- 187 *A. SATIVA* L. (Common Oat.) Spontaneous but not persistent.

ARRHENATHERUM Beauv. (Oat Grass)

- 188 *A. ELATIUS* Beauv. Susquehanna.

DANTHONIA DC. (Wild Oat Grass)

- 189 *D. SPICATA* Beauv. Common.

- 190 *D. COMPRESSA* Aust. Moosic Lake, Nay Aug.

- ELEUSINE** Gaertn. (Goose Grass, Yard Grass)
191 **E. INDICA** Gaertn. Pine Brook, Linden Street.

- TRIDENS** R. & S.
192 **T. FLAVUS** Hitchc. (Tall Red Top.) Luzerne County, *Prof. Porter*.

- ERAGROSTIS** Beauv.
193 **E. HYPNOIDES** BSP. Plymouth.
194 **E. CAPILLARIS** Nees. Kingston.
195 **E. FRANKII** Steud. (Frank's Eragrostis.) Monroe County, *Prof. Porter*.
196 **E. PILOSA** Beauv. Susquehanna.
197 **E. MEGASTACHYA** Link. Forty Fort.

- DACTYLIS** L. (Orchard Grass)
198 **D. GLOMERATA** L. Common.

- POA** L. (Meadow Grass, Spear Grass)
199 **P. ANNUA** L. (Low Spear Grass.) Frequent.
200 **P. COMPRESSA** L. (Canada Blue Grass, Wire Grass.) Dry places, Mountain tops.
201 **P. TRIFLORA** Gilib. (Fowl Meadow Grass.) Susquehanna.
202 **P. PRATENSIS** L. (June Grass, Spear Grass, Kentucky Blue Grass.) Common.
203 **P. DEBILIS** Torr. Naomi Pines.
204 **P. AUTUMNALIS** Muhl. Indian Rock. Monroe County, *Prof. Porter*.

- GLYCERIA** R. Br. (Manna Grass)
205 **G. TORREYANA** Hitchc. Lake Henry.
206 **G. OBTUSA** Trin. Tobyhanna.
207 **G. CANADENSIS** Trin. (Rattlesnake Grass.) Frequent in ponds or marshes.
208 **G. LAXA** Scribn. (Northern Meadow Grass.) Pocono Plateau, *Dr. J. W. Harshberger*.
209 **G. NERVATA** Trin. (Fowl Meadow Grass.) Lake Henry.
210 **G. GRANDIS** Wats. (Reed Meadow Grass.) Lake Henry.
211 **G. PALLIDA** Trin. Tobyhanna.
212 **G. FLUITANS** R. Br. Long Pond near Tobyhanna.
213 **G. BOREALIS** Batchelder. (Northern Manna Grass.) Pocono Plateau, *Prof. Porter*.

- FESTUCA** L. (Fescue Grass)
214 **F. OCTOFLORA** Walt. Mocanaqua.
215 **F. OVINA** L. (Sheep's Fescue.) Susquehanna.
216 **F. ELATIOR** L. (Taller or Meadow Fescue.) Common.
217 **F. NUTANS** Spreng. Elk Mountain.

- BROMUS** L. (Brome Grass)
218 **B. SECALINUS** L. (Cheat or Chess.) Common.
219 **B. RACEMOSUS** L. Campbell's Ledge.
220 **B. CILIATUS** L. River woods.
221 **B. PURGANS** L. Near Mehoopany, Wyoming County.
222 **B. KALMII** Gray. Campbell's Ledge.

LOLIUM L. (Darnel)

- 223 L. PERENNE L. (Common Darnel or Rye Grass.) Not uncommon.

AGROPYRON Gaertn.

- 224 A. REPENS Beauv. (Couch or Quick Grass.) Common.
225 A. BIFLORUM R. and S. Bald Mount.
226 A. CANINUM Beauv. (Awned Wheat Grass.) Northeastern Pennsylvania, *Prof. Porter*.

HORDEUM L. (Barley)

- 227 H. JUBATUM L. (Squirrel-Tail Grass.) Lake Ariel, Clarks Summit, Lackawanna Yards, Scranton.

ELYMUS L. (Wild Rye)

- 228 E. VIRGINICUS L. Frequent.
229 E. CANADENSIS L. Campbell's Ledge.
230 E. CANADENSIS, VAR. GLAUCIFOLIUS Gray. Susquehanna.
231 E. STRIATUS Willd. Campbell's Ledge.

HYSTRIX Moench. (Bottle-Brush Grass)

- 232 H. PATULA Moench. Moist woods.

TRITICUM

- 233 T. SATIVUM Lam. (Winter Wheat.) Spontaneous but not persistent.*

SECALE

- 234 S. CEREALE L. (Rye.) Spontaneous but not persistent.*

CYPERACEAE (Sedge Family)

CYPERUS L. (Galingale)

- 235 C. DIANDRUS Torr. Tobyhanna, Little Birdseye.
236 C. ARISTATUS Rottb. Susquehanna.
237 C. ESCULENTUS L. Kingston.
238 C. FERAX Rich. Susquehanna.
239 C. STRIGOSUS L. Big Birdseye.
240 C. OVULARIS Torr. Wyoming Swamp, Susquehanna.
241 C. FILICULMIS Vahl. Duryea, near river.

DULCHIMUM Pers.

- 242 D. ARUNDINACEUM Britton. Wyoming Swamp.

ELEOCHARIS R. Br. (Spike Rush)

- 243 E. OLIVACEA Torr. Susquehanna.
244 E. OVATA R. and S. Little Birdseye, Susquehanna.
245 E. PALUSTRIS R. and S. Wyoming Swamp.
246 E. ACICULARIS R. and S. Mud Pond.

STENOPHYLLUS Raf.

- 247 S. CAPILLARIS Britton. Coxton.

SCIRPUS L. (Bulrush or Club Rush)

- 248 S. SUBTERMINALIS Torr. Susquehanna, *Prof. Graves*.
- 249 S. DEBILIS Pursh. Starlight.
- 250 S. AMERICANUS Pers. Lake Winola.
- 251 S. TORREYI Olney. Lake Winola.
- 252 S. VALIDUS Vahl. (Great Bulrush.) Common. Kingston.
- 253 S. SYLVATICUS L. Wilkes-Barre.
- 254 S. ATROVIRENS Muhl. Susquehanna.
- 255 S. POLYPHILLUS Vahl. Tobyhanna, Lake Winola.
- 256 S. LINEATUS Michx. Susquehanna.
- 257 S. CYPERINUS Kunth. (Wool Grass.) Lehigh Pond.

ERIOPHORUM L. (Cotton Grass)

- 258 E. CALLITRIX Cham. (Hare's Tail.) Lehigh Pond, Atherton's Pond.
- 259 E. GRACILE Roth. Pocono Station.
- 260 E. ANGUSTIFOLIUM Roth. Lehigh Pond.
- 261 E. VIRIDI-CARINATUM Fernald. Saylor's Lake, Monroe County
- 262 E. VIRGINICUM L. Atherton's Pond near Dalton.

RYNCHOSPORA Vahl (Beak Rush)

- 263 R. CYMOSA Ell. Starlight.
- 264 R. ALBA Vahl. Mud Pond near Elmhurst.
- 265 R. GLOMERATA Vahl. Wyoming.

SCLERIA Bergius. (Nut Rush)

- 266 S. TRIGLOMERATA Michx. Penobscot Knob, *Prof. Dudley*. Rare.
- 267 S. PAUCIFLORA Muhl. East of Fairview.
- 268 S. RETICULARIS, VAR. PUBESCENS Britton. Monroe Co., *Prof. Porter*.

CAREX L. (Sedge)

- 269 C. SCOPARIA Schkuhr. Frequent on mountains.
- 270 C. TRIBULOIDES Wahlenb. Susquehanna.
- 271 C. TRIBULOIDES, VAR. REDUCTA Bailey. Gouldsboro, *Dudley*.
- 272 C. ALBOLUTESCENS Schwein. Near Tannersville, *Dr. T. C. Porter*.
- 273 C. MIRABILIS Dewey. Peckville, *H. D. Dunn*.
- 274 C. STRAMINEA Willd. Susquehanna.
- 275 C. SILICEA Olney. Susquehanna.
- 276 C. ALATA Torr. Between Pocono Summit and Mount Pocono, *Dudley*. Rare.
- 277 C. FOENEA Willd. Campbell's Ledge.
- 278 C. FOENEA, VAR. PERPLEXA Bailey. Gouldsboro.
- 279 C. STELLULATA, VAR. CEPHALANTHA Fernald. Lily Lake.
- 280 C. STERILIS Willd. Susquehanna.
- 281 C. CANESCENS L. Atherton's Pond.
- 282 C. BRUNNESCENS Poir. Lehigh Pond.
- 283 C. BROMOIDES Schkuhr. Susquehanna.
- 284 C. DEWEYANA Schwein. Susquehanna.
- 285 C. TRISPERMA Dewey. Susquehanna.
- 286 C. TENELLA Schkuhr. Susquehanna.
- 287 C. ROSEA Schkuhr. Susquehanna.

- 288 C. ROSEA, VAR. RADIATA Dewey. Susquehanna.
- 289 C. RETROFLEXA Muhl. Susquehanna.
- 290 C. MUHLENBERGII Schkuhr. Birdseye.
- 291 C. CEPHALOPHORA Muhl. Susquehanna.
- 292 C. SPARGANOIDES Muhl. Penobscot, *Prof. Dudley*.
- 293 C. VULPINOIDEA Michx. O. and W. Yard, Scranton.
- 294 C. SETACEA, VAR. AMBIGUA Fernald. Monroe County, *Dr. T. C. Porter*.
- 295 C. DIANDRA Schrank. Lehigh Pond.
- 296 C. STIPATA Muhl. Bebee's Swamp, Susquehanna.
- 297 C. CRINITA Lam. Mud Pond, Elmhurst.
- 298 C. CRINITA, VAR. MINOR Boott. Wayne and Monroe, *Dr. T. C. Porter*.
- 299 C. CRINITA, VAR. GYNANDRA S. and T. Susquehanna.
- 300 C. TORTA Boott. Hawley.
- 301 C. GOODENOWII J. Gay. Delaware Water Gap, *Dr. T. C. Porter*.
- 302 C. STRICTA Lam. Susquehanna.
- 303 C. STRICTA, VAR. ANGUSTATA Bailey. Lehigh Pond.
- 304 C. STRICTA, VAR. DECORA Bailey. Susquehanna, Lily Lake.
- 305 C. PAUCIFLORA Lightf. Atherton's Pond. Rare.
- 306 C. LEPTALEA Wahlenb. Susquehanna.
- 307 C. TRICEPS Michx. Campbell's Ledge.
- 308 C. VIRESCENS Muhl. Archbald.
- 309 C. DAVISII Schwein. and Torrey. Pike County, *Dr. T. C. Porter*.
- 310 C. GRACILLIMA Schwein. Moscow, Birdseye.
- 311 C. AESTIVALIS M. A. Curtis. Tobyhanna.
- 312 C. UMBELLATA. Schkuhr. Peckville, *H. D. Dunn*.
- 313 C. DEFLEXA Hornem. Pocono, *Dr. Porter*.
- 314 C. COMMUNIS Bailey. Susquehanna.
- 315 C. NOVAE-ANGLIAE Schwein. Foot of Long Pond, Monroe County.
- 316 C. PENNSYLVANICA Lam. Nicholson.
- 317 C. PUBESCENS Muhl. Susquehanna.
- 318 C. TETANICA Schkuhr. Monroe County, *Dr. T. C. Porter*.
- 319 C. POLYMORPHA Muhl. Pocono, *Porter*.
- 320 C. PALLESCENS L. Susquehanna.
- 321 C. PAUPERCULA Michx., VAR. IRRIGUA Fernald. Lehigh Pond. Rare.
- 322 C. LIMOSA L. Atherton's Pond.
- 323 C. PRASINA Wahlenb. Susquehanna.
- 324 C. EBURNEA Boott. Campbell's Ledge.
- 325 C. PEDUNCULATA Muhl. Susquehanna.
- 326 C. PLANTAGINEA Lam. La Plume. Common.
- 327 C. PLATYPHYLLA, Carey. Monroe County, *Dr. T. C. Porter*.
- 328 C. LAXICULMIS Schwein. Susquehanna.
- 329 C. DIGITALIS Willd. Susquehanna.
- 330 C. LAXIFLORA Lam. Susquehanna, Birdseye.
- 331 C. LAXIFLORA, VAR. PATULIFOLIA Carey. Monroe County, *Dr. T. C. Porter*.
- 332 C. LAXIFLORA, VAR. BLANDA Boott. Pike County. *Dr. T. C. Porter*.
- 333 C. HITCHCOCKIANA Dewey. West of Dundaff, *Porter*. Rare.
- 334 C. CONOIDEA Schkuhr. Monroe County. *Dr. T. C. Porter*.
- 335 C. GRISEA Wahlenb. Susquehanna.
- 336 C. GRANULARIS Muhl. Susquehanna.

- 337 *C. FLAVA* L. Susquehanna, *J. A. Graves*.
 338 *C. LONGIROSTRIS* Torr. Near Coxton, *Prof. Dudley*.
 339 *C. ARCTATA* Boott. Pocono, *Prof. Porter*.
 340 *C. DEBILIS* Michx. Starlight, Susquehanna.
 341 *C. DEBILIS*, VAR. *INTERJECTA* Bailey. Monroe County, *Dr. T. C. Porter*.
 342 *C. SCABRATA* Schwein. Susquehanna.
 343 *C. FILIFORMIS* L. Atherton's Pond.
 344 *C. VESTITA* Willd. Glen Summit.
 345 *C. OLIGOSPERMA* Michx. Monroe County, *Dr. Porter*.
 346 *C. TRICHOCARPA* Muhl. Susquehanna.
 347 *C. RIPARIA* W. Curtis. Moscow.
 348 *C. TYPHINOIDES* Schwein. Monroe County, *Dr. T. C. Porter*.
 349 *C. PSEUDO-CYPERUS* L. Susquehanna.
 350 *C. COMOSA* Boott. Wyoming Swamp, Susquehanna.
 351 *C. HYSTERICINA* Muhl. Monroe County, *Dr. T. C. Porter*.
 352 *C. LURIDA* Wahlenb. Susquehanna.
 353 *C. LURIDA*, VAR. *GRACILIS* Bailey. Susquehanna.
 354 *C. SCHWEINITZII* Dewey. Dr. Porter in his *Flora of Pennsylvania* says the *carex* in question does not seem to have been collected in Pennsylvania since Schweinitz first found it. A letter from Dr. Porter in the Alfred Twining Herbarium contains specimens of *C. schweinitzii* from New York state and *C. michauxiana* from the White Mountains of New Hampshire. Both species are rare.
 355 *C. RETRORSA* Schwein. Susquehanna.
 356 *C. RETRORSA*, VAR. *HARTII* Gray. Beebe's Swamp. Susquehanna, *J. A. Graves*.
 357 *C. LUPULINA* Muhl. Kingston.
 358 *C. GRAYII* Carey. Glen Summit, *Porter*. Rare.
 359 *C. INTUMESCENS* Rudge. Susquehanna.
 360 *C. FOLLICULATA* L. Not rare. Lake Winola, Birdseye.
 361 *C. MICHAUXIANA* Boeckl. Very rare. Monroe County, *Dr. Porter*.
 362 *C. VESICARIA* L., VAR. *MONILE* Fernald. Susquehanna.
 363 *C. ROSTRATA*, VAR. *UTRICULATA* Bailey. Kellogg's Pond. Wayne County, *Dr. Porter*.
 364 *C. BULLATA* Schkuhr. Susquehanna, *Dr. T. C. Porter*.
 365 *C. TUCKERMANI* Dewey. Pocono, Susquehanna.

NOTE—The majority of the carices from Susquehanna, Pa., are from the collection of the late Prof. James A. Graves and were certified by Dr. Thomas C. Porter of Lafayette College to be correctly classified.

ARACEAE (Arum Family)

ARISAEMA Martius

- 366 *A. TRIPHYLLUM* Schott. (Indian Turnip, Jack-in-the-Pulpit.) Frequent.
 367 *A. STEWARDSONII* Britton. Tannersville. See Britton's Manual, Appendix, page 1057.*
 368 *A. PUSILLUM* Nash. Swamps of the Pocono, *Dr. J. W. Harshberger*.
 369 *A. DRACONTIUM* Schott. (Green Dragon.) Susquehanna. Rare.

PELTANDRA Raf. (Arrow Arum)

- 370 *P. VIRGINICA* Kunth. Mud Pond, Elmhurst, Bigelow Pond. Not frequent.

CALLA L. (Water Arum)

- 371 *C. PALUSTRIS* L. Frequent in cold bogs. Atherton's Pond, Moosic Lake, Lehigh Pond.

SYMPLOCARPUS Salisb. (Skunk Cabbage)

- 372 *S. FOETIDUS* Nutt. Common in marshy places.

ORONTIUM L. (Golden Club)

- 373 *O. AQUATICUM* L. Moosic Lake, Spring Brook, Wayne County ponds.

ACORUS L. (Sweet Flag)

- 374 *A. CALAMUS* L. Common in wet places.

- 375 *A. CALAMUS*, VAR. *VARIEGATUS* Sm. North end of Glenburn Pond, *G. L. Newbold*.*

LEMNACEAE (Duckweed Family)

SPIRODELA Schleid.

- 376 *S. POLYRHIZA* Schleid. Kingston pond holes.

LEMNA L. (Duckweed, Duck's Meat)

- 377 *L. PERPUSILLA* Torr. Tobyhanna, Lehigh Pond.

- 378 *L. MINOR* L. Common in ponds.

ERIOCAULACEAE (Pipewort Family)

ERIOCAULON L. (Pipewort)

- 379 *E. ARTICULATUM* Morong. Moosic Lake, Lake Winola. Not rare.

XYRIDACEAE (Yellow-Eyed Grass Family)

XYRIS L.

- 380 *X. MONTANA* Ries. Moosic Lake. Not infrequent.

- 381 *X. CAROLINIANA* Walt. Long Pond, Luzerne County. Rare.

COMMELINACEAE (Spiderwort Family)

TRADESCANTIA L.

- 382 *T. VIRGINIANA* L. La Plume. Not an infrequent escape.

COMMELINA L. (Day-Flower)

- 383 *C. COMMUNIS* L. Everhart Island.

- 384 *C. VIRGINICA* L. Hyde Park. Common.

PONTEDERACEAE (Pickerel-Weed Family)

PONTEDERIA L. (Pickerel-Weed)

- 385 *P. CORDATA* L. Atherton's Pond, Mud Pond, Moosic Lake.

HETERANTHERA R. and P. (Mud Plantain)

- 386 *H. DUBIA* MacM. Kingston pond holes.

JUNCACEAE (Rush Family)

JUNCUS L. (Rush, Bog Rush)

- 387 J. BUFONIUS L. Moosic Lake, Tobyhanna.
388 J. TENUIS Willd. Common near footpaths in woods.
389 J. SECUNDUS Beauv. Birdseye.
390 J. DUDLEYI Wiegand. Monroe County, *Prof. Porter*.
391 J. BALTICUS, VAR. LITTORALIS Engelm. Susquehanna, identified by *Dr. Porter*.
392 J. FILIFORMIS L. Wet shores.
393 J. EFFUSUS L. (Common Bulrush.) Frequent in marshy places.
394 J. BREVICAUDATUS Fernald. Mountain Inn Road, Gouldsboro.
395 J. CANADENSIS J. Gay. Glen Summit.
396 J. CANADENSIS, VAR. SUBCAUDATUS Engelm. Bald Mount.
397 J. PELOCARPUS Mey. Tobyhanna.
398 J. MILITARIS Bigel. (Bayonet Rush.) Twelve Mile Pond in Pike County, *Prof. Porter*.
399 J. ACUMINATUS Michx. Fairview.
400 J. MARGINATUS Rostk. Bald Mount. Common.

LUZULA DC. (Wood Rush)

- 401 L. SALTUENSIS Fernald. Dunmore, Taylor.
402 L. CAMPESTRIS DC. Common in dry woods.

LILIACEAE (Lily Family)

CHAMAELIRIUM Willd. (Devil's Bit)

- 403 C. LUTEUM Gray. (Blazing Star.) Moosic Lake, Campbell's Ledge. Rare.

AMIANTHIUM Gray. (Fly Poison)

- 404 A. MUSCAETOXICUM Gray. Moosic Mountain. Penobscot.

MELANTHIUM L.

- 405 M. LATIFOLIUM Desr. Rocky Glen (one plant), Fairview, Penobscot.

VERATRUM L. (False Hellebore)

- 406 V. VIRIDE Ait. (American White Hellebore.) Common in damp places.

UVULARIA L. (Bellwort)

- 407 U. PERFOLIATA L. Common.

OAKESIA Wats.

- 408 O. SESSILIFOLIA Wats. Common.

ALLIUM L. (Onion, Garlic)

- 409 A. TRICOCCUM Ait. (Wild Leek.) Dalton, Stillwater.
410 A. CERNUUM Roth. (Wild Onion.) Falling Springs.
411 A. CANADENSE L. (Wild Garlic.) Stroudsburg.

HEMEROCALLIS L. (Day Lily)

- 412 H. FULVA L. (Common Day Lily.) Common escape from gardens.

LILIUM L. (Lily)

413. *L. PHILADELPHICUM* L. (Wild Orange-Red Lily.) Common in dry fields.
414 *L. CANADENSE* L. (Wild Yellow Lily.) Chinchilla.
415 *L. TIGRINUM* Ker. (Tiger Lily.) Glenburn Pond, La Plume.

ERYTHRONIUM L. (Dog's Tooth Violet)

- 416 *E. AMERICANUM* Ker. (Yellow Adder's Tongue.) Plentiful at North Chinchilla.

ORNITHOGALUM L. (Star of Bethlehem)

- 417 *O. NUTANS* L. Roadside near Stroudsburg.

ASPARAGUS L.

- 418 *A. OFFICINALIS* L. Common as an escape in the Wyoming Valley.

CLINTONIA Raf.

- 419 *C. BOREALIS* Raf. Common in cold woods.

SMILACINA Desf. (False Solomon's Seal)

- 420 *S. RACEMOSA* Desf. (False Spikenard.) Common.
421 *S. STELLATA* Desf. Gouldsboro.
422 *S. TRIFOLIA* Desf. Pocono swamps.

MAIANTHEMUM Wiggers.

- 423 *M. CANADENSE* Desf. Common.

STREPTOPUS Michx. (Twisted Stalk)

- 424 *S. AMPLEXIFOLIUS* DC. Susquehanna. Rare.
425 *S. ROSEUS* Michx. Gravel Pond, Poyntelle. Not common.

POLYGONATUM Hill. (Solomon's Seal)

- 426 *P. BIFLORUM* Ell. (Small Solomon's Seal.) Campbell's Ledge. Common.
427 *P. COMMUTATUM* Dietr. (Great Solomon's Seal.) Frequent along river near Wyoming and Forty Fort, along Lackawanna at Taylor.

CONVALLARIA L. (Lily of the Valley)

- 428 *C. MAJALIS* L. Frequent as an escape.

MEDEOLA L. (Indian Cucumber Root)

- 429 *M. VIRGINIANA* L. Common in rich damp woods.

TRILLIUM L. (Wake Robin, Birthroot)

- 430 *T. ERECTUM* L. Frequent.
431 *T. GRANDIFLORUM* Salisb. Nicholson, Elk Mountain, West Orson. Not common.
432 *T. UNDULATUM* Willd. (Painted Trillium.) Frequent

ALETRIS L. (Colic-Root)

- 433 *A. FARINOSA* L. Campbell's Ledge, Prof. Porter.

SMILAX L. (Green Brier, Cat Brier)

- 434 *S. HERBACEA* L. Common.
435 *S. ROTUNDIFOLIA* L. Common
436 *S. ROTUNDIFOLIA*, VAR. *QUADRANGULARIS* Wood. Not infrequent.
437 *S. GLAUCA*. (Saw Brier.) Little Roaring Brook above Dunmore Reservoir.
438 *S. HISPIDA* Muhl. Country Club, Scranton, along Lackawanna, Taylor.

DIOSCOREACEAE (Yam Family)

DIOSCOREA L. (Yam)

- 439 *D. VILLOSA* L. (Wild Yam-Root.) Along banks of railroad at Taylor, Wyoming, along river banks. Not common.

AMARYLLIDACEAE (Amaryllis Family)

HYPOXIS L. (Star Grass)

- 440 *H. HIRSUTA* Coville. Common.

IRIDACEAE (Iris Family)

IRIS L. (Fleur-de-Lis)

- 441 *I. VERSICOLOR* L. (Larger Blue Flag.) Frequent.
442 *I. PSEUDACORUS* L. (Yellow Iris.) Colony by Fleetville road, Waverly.

SISYRINCHIUM L. (Blue-Eyed Grass)

- 443 *S. ALBIDUM* Raf. Naomi Pines, *Dr. Porter*.
444 *S. ANGUSTIFOLIUM* Mill. Frequent.
445 *S. GRAMINEUM* Curtis. Common.

ORCHIDACEAE (Orchis Family)

CYPRIPEDIUM L. (Lady's Slipper)

- 446 *C. PARVIFLORUM* Salisb. (Small Yellow Lady's Slipper.) Spring Brook, Campbell's Ledge.
447 *C. PARVIFLORUM*, VAR. *PUBESCENS* Knight. Frequent.
448 *C. ACAULE* Ait. (Stemless Lady's Slipper.) Lake Winola, Campbell's Ledge, Spring Brook.

ORCHIS L.

- 449 *O. SPECTABILIS* L. (Showy Orchis.) Gravel Pond, near Stroudsburg. Rare.

HABENARIA Willd. (Fringed Orchis)

- 450 *H. BRACTEATA* R. Br. Elk Hills, *Prof. R. N. Davis*.
451 *H. FLAVA* Gray. Susquehanna, Wyoming, *H. D. Dunn*.
452 *H. CLAVELLATA* Spreng. Moosic Lake, Atherton's Pond.
453 *H. HOOKERI* Torr. Bald Mount, Fairview, Tilbury Knob.
454 *H. ORBICULATA* Torr. Woods of Forest Hill Cemetery, Dunmore.

- 455 *H. CILIARIS* R. Br. (Yellow Fringed Orchis.) Moosic Lake, Birdseye.
 456 *H. BLEPHARIGLOTTIS* Torr. (White Fringed Orchis.) Poyntelle, Lehigh Pond.
 457 *H. LACERA* H. Br. (Ragged Fringed Orchis.) Orson, Moosic Lake.
 458 *H. PSYCODES* Sw. Not uncommon.
 459 *H. FIMBRIATA* R. Br. Not infrequent.

POGONIA Juss.

- 460 *P. OPHIOGLOSSOIDES* Ker. Lily Lake, Atherton's Pond, Lake Henry.
 461 *P. VERTICILLATA* Nutt. Near top of Bald Mountain, *Prof. Francis Lincoln*. Rare.

CALOPOGON R. Br.

- 462 *C. PULCHELLUS* R. Br. Little Roaring Brook, Atherton's Pond, Moosic Lake.

SPIRANTHES Richard. (Ladies' Tresses)

- 463 *S. GRACILIS* Beck. Bald Mount. Frequent.
 464 *S. CERNUA* Richard. Common.
 465 *S. CERNUA*, VAR. *OCHROLEUCA* Ames. Frequent on dry banks. Big Birdseye.

EPIPACTIS Boehm. (Rattlesnake Plantain)

- 466 *E. REPENS* Crantz. Lake Winola. Rare.
 467 *E. PUBESCENS* A. A. Eaton. Not uncommon.

LISTERA R. Br.

- 468 *L. CORDATA* R. Br. Rare. Sphagnum bog. Wayne County, *J. S. Moyer*.

CORALLORHIZA R. Br. (Coral Root)

- 469 *C. TRIFIDA* Chatelain. Clarks Summit, Beebe's swamp, Susquehanna.
 470 *C. MACULATA* Raf. Poyntelle, Lake Henry, Bald Mount slope.

MICROSTYLIS Eaton. (Adder's Tongue)

- 471 *M. UNIFOLIA* BSP. Occasional in bogs and woods. Marshwood, Bald Mount.

LIPARIS Richard. (Twayblade)

- 472 *L. LILIIFOLIA* Richard. Campbell's Ledge, Fairview along Jersey Central Railroad.
 473 *L. LOESELII* Richard. Elk Mountain at base of north dome.

APLECTRUM Torr. (Putty-Root, Adam-and-Eve)

- 474 *A. HYEMALE* Torr. Delaware Water Gap, *Prof. Porter*.

SALICACEAE

SALIX L. (Willow, Osier)

- 475 *S. NIGRA* Marsh. (Black Willow.) Elmhurst, along Susquehanna.
 476 *S. PENTANDRA* L. (Bay-Leaved Willow.) Saylorsburg, Monroe County.
 477 *S. LUCIDA* Muhl. (Shining Willow.) Duryea swamp.

- 478 *S. FRAGILIS* L. (Crack Willow.) Near Mocanaqua, *Dudley*. Planted for protection to river banks.
- 479 *S. ALBA* L., VAR. *VITELLINA*. (White Willow.) Frequent in Wyoming Valley.
- 480 *S. ALBA*, VAR. *CAERULEA* Koch. Along Susquehanna, *Dudley*.
- 481 *S. BABYLONICA* L. (Weeping Willow.) Cultivated and escaped.
- 482 *S. LONGIFOLIA* Muhl. (Sand Bar Willow.) Sand bars of Susquehanna River.
- 483 *S. CORDATA* Muhl. (Heart-Leaved Willow.) Frequent in two valleys.
- 484 *S. CORDATA*, VAR. *MYRICOIDES* Carey . Toby's Creek, Kingston, Thurston.
- 485 *S. GLAUCOPHYLLA* Bebb. (Broad-Leaved Willow.) Monroe County, *Prof. Porter*.
- 486 *S. DISCOLOR* Muhl. (Glaucous Willow.) Frequent in wet places on mountains.
- 487 *S. PETIOLARIS* Sm. Abundant at Moosic Lake.
- 488 *S. HUMILIS* Marsh. (Prairie Willow.) Frequent.
- 489 *S. TRISTIS* Ait. (Dwarf Gray Willow.) Campbell's Ledge, opposite Duryea.
- 490 *S. SERICEA* Marsh. (Silky Willow.) Frequent in Lackawanna Valley.
- 491 *S. ROSTRATA* Richards. Pocono, Penobscot, Wilkes-Barre.
- 492 *S. INCANA*. Kingston, *Thurston*. Escaped from cultivation.*

POPULUS L. (Aspen)

- 493 *P. ALBA* L. (Silver-Leaved Poplar.) Cultivated and spreading by root.
- 494 *P. TREMULOIDES* Michx. (Quaking Aspen.) Common.
- 495 *P. GRANDIDENTATA* Michx. (Large-Toothed Aspen.) Frequent.
- 496 *P. CANDICANS* Ait. (Balm of Gilead.) Rarely spreading from cultivation.
- 497 *P. DELTOIDES* Marsh. (Carolina Poplar.) Commonly spreading from the roots.
- 498 *P. NIGRA*, VAR. *ITALICA* Du Roi. (Lombardy Poplar.) Kingston flats.

MYRICACEAE (Sweet Gale Family)

MYRICA L.

- 499 *M. GALE* L. (Sweet Gale.) Lake Henry, Waymart, Naomi Pines.
- 500 *M. CAROLINENSIS* Mill. (Bayberry.) Monroe County, *Prof. Porter*.
- 501 *M. ASPLENIFOLIA* L. (Sweet Fern.) Common.

JUGLANDACEAE (Walnut Family)

JUGLANS L. (Walnut)

- 502 *J. CINEREA* L. (Butternut.) Frequent in Abington and Spring Brook
- 503 *J. NIGRA* L. (Black Walnut.) Not uncommon.

CARYA Nutt. (Hickory)

- 504 *C. OVATA* Koch. (Shell-Bark Hickory.) Frequent.
- 505 *C. ALBA* Koch. (White-Heart Hickory.) Frequent.
- 506 *C. MICROCARPA* Nutt. Mocanaqua.

- 507 *C. GLABRA* Spach. (Pignut.) Common.
 508 *C. CORDIFORMIS* Koch. (Bitternut.) Common in Abingtons.

BETULACEAE (Birch Family)

CORYLUS L. (Hazelnut)

- 509 *C. AMERICANA* Walt. (Hazelnut.) Common.
 510 *C. ROSTRATA* Ait. (Beaked Hazelnut.) Occasional.

OSTRYA Scop. (Hop Hornbeam)

- 511 *O. VIRGINIANA* Koch. Common in rich woods.

CARPINUS L. (Hornbeam, Ironwood)

- 512 *C. CAROLINIANA* Walt. (Blue or Water Beech.) Frequent along streams.

BETULA L. (Birch)

- 513 *B. LENTA* L. (Sweet or Black Birch.) Common.
 514 *B. LUTEA* Michx. (Yellow Birch.) Frequent.
 515 *B. ALLEGHANIENSIS* Britton. Monroe County.
 516 *B. NIGRA* L. (River or Red Birch.) Frequent along rivers in two valleys.
 517 *B. POPULIFOLIA* Marsh. (White Birch.) Common.
 518 *B. ALBA*, VAR. *PAPYRIFERA* Spach. (Paper or Canoe Birch.) North slope of mountain at Chinchilla, near Elmhurst Boulevard speedway.

ALNUS Hill. (Alder)

- 519 *A. CRISPA* Pursh. (Mountain Alder.) Penobscot Knob.
 520 *A. INCANA* Moench. (Speckled Alder.) Lower Lackawanna Valley, Moosic Mountain.
 521 *A. RUGOSA* Spreng. (Smooth Alder.) Frequent.

FAGACEAE (Beech Family)

FAGUS L. Beech.

- 522 *F. GRANDIFOLIA* Ehrh. Common in Abingtons. Not infrequent elsewhere.

CASTANEA Hill. (Chestnut)

- 523 *C. DENTATA* Borkh. Common.

QUERCUS L. (Oak)

- 524 *Q. ALBA* L. (White Oak.) Common.
 525 *Q. BICOLOR* Willd. (Swamp White Oak.) Above Leggett's Gap, Little Roaring Brook.
 526 *Q. PRINOIDES* Willd. Damp woods.
 527 *Q. PRINUS* L. (Chestnut Oak.) Frequent on mountains.
 528 *Q. RUBRA* L. (Red Oak.) Common.
 529 *Q. COCCINEA* Muench. (Scarlet Oak.) Frequent along Lackawanna.
 530 *Q. VELUTINA* Lamb. (Black Oak.) Frequent.
 531 *Q. ILICIFOLIA* Wang. (Scrub Oak.) Common on rocky hills.

URTICACEAE (Nettle Family)

ULMUS L. (Elm)

- 532 U. *FULVA* Michx. (Slippery Elm.) A dozen trees in Fell Woods, Waverly; one tree at Little Birdseye. Infrequent.
533 U. *AMERICANA* L. (American or White Elm.) Frequent.

CELTIS L. (Hackberry)

- 534 C. *OCCIDENTALIS* L. (Hackberry.) Opposite Plymouth along river; below Plymouth along river; near Pocono Knob.

CANNABIS L. (Hemp)

- 535 C. *SATIVA* L. One plant near Carbon street bridge, Scranton.

HUMULUS L. (Hop)

- 536 H. *LUPULUS* L. (Common Hop.) Occasional along the Susquehanna.

BROUSSONETIA L'Her.

- 537 B. *PAPYRIFERA* Vent. (Paper Mulberry.) One tree in Cherry Valley, Monroe County.

MORUS L. (Mulberry)

- 538 M. *RUBA* L. (Red Mulberry.) Several trees near Stroudsburg road to Cherry Valley, River near Kingston.
539 M. *ALBA* L. (White Mulberry.) Spontaneous near houses.

URTICA L. (Nettle)

- 540 U. *GRACILIS* Ait. (Slender Nettle.) Common along fence rows.

LAPORTEA Gaud. (Wood Nettle)

- 541 L. *CANADENSIS* Gaud. Common in moist woods.

PILEA Lindl. (Clearweed)

- 542 P. *PUMILA* Gray. Common in moist shaded places.

BOEHMERIA Jacq. (False Nettle)

- 543 B. *CYLINDRICA* Sw. Duryea Swamp, near Waverly, Taylor.

PARIETARIA L. (Pellitory)

- 544 P. *PENNSYLVANICA* Muhl. Taylor ledges, shaded rocky banks.

SANTALACEAE (Sandalwood Family)

COMANDRA Nutt. (Bastard Toad Flax)

- 545 C. *UMBELLATA* Nutt. Common in dry grounds. Big Birdseye.

LORANTHACEAE (Mistletoe Family)

ARCEUTHOBium Bieb.

- 546 A. *PUSILLUM* Peck. (Dwarf Mistletoe.) Lehigh Pond on dwarf spruces. Bog near Tannersville, Prof. Porter.

ARISTOLOCHIACEAE (Birthwort Family)

ASARUM L. (Wild Ginger)

- 547 A. CANADENSE L. Common in rich damp woods.

POLYGONACEAE (Buckwheat Family)

RUMEX L. (Dock, Sorrel)

- 548 R. PATIENTIA L. (Patience Dock.) Near Wyoming, *H. D. Dunn*.
549 R. BRITANNICA L. (Great Water Dock.) Wayne County, *Prof. Porter*.
550 R. CRISPUS L. (Yellow Dock.) Common.
551 R. ALTISSIMUS Wood. (Pale Dock.) Wyoming.
552 R. VERTICILLATUS L. (Swamp Dock.) Kingston pond holes.
553 R. OBTUSIFOLIUS L. (Bitter Dock.) Common in ditches.
554 R. ACETOSELLA L. (Sheep Sorrel.) A common weed.

POLYGONUM L. (Knotweed)

- 555 P. AVICULARE L. Common in dooryards.
556 P. AVICULARE, VAR. LITTORALE Koch. Solomon's Gap, *Prof. C. O. Thurston*.
557 P. ERECTUM L. Common.
558 P. TENUE Michx. Top of Campbell's Ledge.
559 P. LAPATHIFOLIUM L. Opposite Plymouth.
560 P. AMPHIBIUM L. Lake Carey, Susquehanna River, Plymouth.
561 P. AMPHIBIUM, VAR. HARTWRIGHTII Gray. Swamp at Orson, opposite Plymouth.
562 P. MUHLENBERGII Wats. Opposite Plymouth.
563 P. PENNSYLVANICUM L. Moist soil. Not uncommon.
564 P. CAREYI Olney. Pocono Station along railroad bank.
565 P. HYDROPIPER L. (Common Smartweed.) Common.
566 P. ACRE HBK. (Water Smartweed.) Common in swamps.
567 P. ORIENTALE L. (Prince's Feather.) Occasional in waste ground near gardens.
568 P. PERSICARIA L. (Lady's Thumb.) Frequent.
569 P. HYDROPIPEROIDES Michx. (Mild Water Pepper.) Shores of Susquehanna.
570 P. VIRGINIANUM L. Near Taylor depot, near Dunmore Cemetery.
571 P. ARIFOLIUM L. (Halberd-Leaved Tear-Thumb.) Frequent in low ground.
572 P. SAGITTATUM L. (Arrow-Leaved Tear-Thumb.) Common in marshy places.
573 P. CONVULVULUS L. (Black Bindweed.) Common.
574 P. CILINODE Michx. Kingston, Tobyhanna.
575 P. SCANDENS L. (Climbing False Buckwheat.) Common.
576 P. DUMETORUM L. Opposite Plymouth.
577 P. CUSPIDATUM Sieb. and Zucc. Scranton, *C. H. Scharar*.

FAGOPYRUM L. (Buckwheat)

- 578 F. ESCULENTUM Moench. (Buckwheat.) Spontaneous in old fields.

CHENOPODIACEAE (Goosefoot Family)

CHENOPODIUM L. Goosefoot, Pigweed)

- 579 C. AMBROSIODES L. (Mexican Tea.) Frequent.
580 C. AMBROSIODES, VAR. ANTHELMINTICUM Gray. (Wormseed.) Not infrequent.
581 C. BOTRYS L. (Jerusalem Oak.) Common.
582 C. CAPITATUM Asch. (Strawberry Blite.) Susquehanna, *J. A. Graves*.
583 C. BONUS-HENRICUS L. (Good-King-Henry.) Moscow, *Prof. R. N. Davis*.
584 C. HYBRIDUM L. (Maple-Leaved Goosefoot.) Not uncommon.
585 C. ALBUM L. (Lamb's Quarters, Pigweed.) Common.
586 C. ALBUM, VAR. VIRIDE Moq. Linden street dump, Scranton.
587 C. URBICUM L. Swetland street, Scranton.
588 C. LEPTOPHYLLUM Nutt. Lackawanna Yards, Scranton.

ATRIPLEX L. (Orach)

- 589 A. ROSEA L. Ont. and West. Yard, Scranton.
590 A. PATULA, VAR. HASTATA Gray. Common on Scranton streets.
591 A. PATULA, VAR. LITTORALIS Gray. Scranton streets.

SALSOLA L. (Saltwort)

- 592 S. KALI, VAR. TENUIFOLIA G. F. W. Mey. (Russian Thistle.) D., L. & W. R. R., Glenburn.

AMARANTHUS L. (Amaranth)

- 593 A. RETROFLEXUS L. (Green Amaranth, Pigweed.) A common weed.
594 A. PANICULATUS L. (Purple Amaranth.) Occasional.
595 A. GRAECIZANS L. (Tumble Weed.) Common.
596 A. BLITOIDES Wats. Pittston Junction, O. and W. yard, Scranton.
597 A. SPINOSUS L. (Thorny Amaranth.) Near Nay Aug Park.

PHYTOLACCACEAE (Pokeweed Family)

PHYTOLACCA L.

- 598 P. DECANDRA L. (Common Poke.) Common.

NYCTAGINACEAE (Four-O'Clock Family)

OXYBAPHUS L'Her.

- 599 O. NYCTAGINEUS Sweet. Lehigh Valley tracks at Wilkes-Barre.

ILLECEBRACEAE (Knotweed Family)

SCLERANTHUS L. (Knapel)

- 600 S. ANNUUS L. Streets of Wyoming, near Stroudsburg, barren fields near Wilkes-Barre.

ANYCHIA Michx. (Forked Chickweed)

- 601 A. POLYGONOIDES Raf. Susquehanna, *Prof. J. A. Graves*.
602 A. CANADENSIS BSP. Bank along D., L. & W. tracks, Taylor.

AIZOACEAE

MOLLUGO L.

- 603 M. VERTICILLATA L. (Carpet Weed.) Frequent.

CARYOPHYLLACEAE (Pink Family)

SPERGULARIA J. and C. Presl. (Sand Spurrey)

- 604 S. RUBRA Presl. Wyoming, east road to Campbell's Ledge.

SPERGULA L. (Spurrey)

- 605 S. ARVENSIS L. (Corn Spurrey.) Occasional along roadsides and in grain fields.

SAGINA L. (Pearlwort)

- 606 S. DECUMBENS T. and G. Near Kingston.

ARENARIA L. (Sandwort)

- 607 A. LATERIFLORA L. Susquehanna, *Prof. J. A. Graves*.
608 A. SERPYLLIFOLIA L. (Thyme-Leaved Sandwort.) Hawley.
609 A. GROENLANDICA Spreng. Local; big colony on rocks east of Moosic station of the Laurel Line, South Scranton near Nay Aug Park.

STELLARIA L. (Chickweed, Starwort)

- 610 S. BOREALIS Bigel. Tobyhanna.
611 S. ULIGINOSA Murr. Taylor woods, Dunmore.
612 S. LONGIFOLIA Muhl. Clarks Summit.
613 S. GRAMINEA L. Keyser Valley.
614 S. PUBERA Michx. (Great Chickweed.) Clarks Summit.
615 S. MEDIA Cyrill. (Common Chickweed.) Very abundant.
616 S. AQUATICA Scop. Toward Boulevard from Dunmore, *Prof. R. N. Davis*.

CERASTIUM L. (Mouse-Ear Chickweed)

- 617 C. ARVENSE L. (Field M.) Common.
618 C. VULGATUM L. (Common M.) Elmhurst.
619 C. VISCOSUM L. Common.
620 C. NUTANS Raf. Plymouth.

AGROSTEMMA L. (Corn Cockle)

- 621 A. GITHAGO L. Common in grain fields.

LYCHNIS L. (Campion)

- 622 L. FLOS-CUCULI L. (Ragged Robin.) Nay Aug Park.
623 L. CHALCEDONICA L. (Scarlet Lychnis.) Near Cobb's Corners.
624 L. DIOICA L. (Red Lychnis.) Susquehanna.
625 L. ALBA Mill. Common.

SILENE L. (Catchfly)

- 626 S. ANTIRRHINA L. (Sleepy Catchfly.) Frequent in Wyoming Valley.
627 S. ARMERIA L. Scranton Golf Grounds.
628 S. GALLICA L. Pittston Junction, Linden street bridge, Scranton.

- 629 S. NOCTIFLORA L. (Night-Flowering Catchfly.) Mud Pond, Elmhurst.
 630 S. PENNSYLVANICA Michx. (Wild Pink.) Campbell's Ledge.
 631 S. STELLATA Ait. (Starry Campion.) Campbell's Ledge.
 632 S. LATIFOLIA B. and R. (Bladder Campion.) Kingston, Diamond Flats, Scranton.

SAPONARIA L.

- 633 S. OFFICINALIS L. (Soapwort.) Common.
 634 S. VACCARIA L. (Cow-Herb.) Coxton Junction, *Prof. R. N. Davis.*

GYPSOPHILA L.

- 635 G. MURALIS L. Susquehanna, *Prof. J. A. Graves.* Rare.

DIANTHUS L. (Pink, Carnation)

- 636 D. BARBATUS L. (Sweet William.) Occasional escape. Waverly, La Plume
 637 D. ARMERIA L. (Deptford Pink.) Tobyhanna.

PORTULACACEAE (Purslane Family)

CLAYTONIA L. (Spring Beauty)

- 638 C. VIRGINICA L. La Plume. Grove across river from Wilkes-Barre. Not common except in North Abington.
 639 C. CAROLINIANA Michx. Common in Abingtons and about Moscow.

PORTULACA L. (Purslane)

- 640 P. OLERACEAE L. Common garden weed.

CERATOPHYLLACEAE (Hornwort Family)

CERATOPHYLLUM L. (Hornwort)

- 641 C. DEMERSUM L. Lake Henry, Gouldsboro, Lake Winola.

NYMPHAEACEAE (Water Lily Family)

NYMPHAEA L. (Yellow Pond Lily, Spatter Dock)

- 642 N. ADVENA Ait. (Cow Lily.) Common in swamps.
 643 N. RUBRODISCA Greene. Tobyhanna.
 644 N. MICROPHYLLA Pers. Tobyhanna, Lake Henry.

CASTALIA Salisb. (Water Lily)

- 645 C. ODORATA W. and W. (Sweet Scented Water Lily.) Lily Lake, Moosic Lake, Lake Henry, Crooked Lake.

BRASENIA Schreb. (Water Shield)

- 646 B. SCHREBERI Gmel. Mud Pond, Elmhurst; Pocono Station, Lake Henry.

RANUNCULACEAE (Crowfoot Family)

RANUNCULUS L. (Buttercup)

- 647 R. AQUATILIS, VAR. CAPILLACEUS DC. Pond Brook. Susquehanna, *Prof. J. A. Graves.*

- 648 R. LAXICAULIS Darby .(Water Plantain.) Hawley.
 649 R. FLAMMULA L., VAR., REPTANS Mey. (Smaller Spearwort.) Above
 Berwick, Heller.
 650 R. SCELERATUS L. (Cursed Crowfoot.) Kingston pond holes.
 651 R. ABORTIVUS L. (Small-Flowered Crowfoot.) Common.
 652 R. RECURVATUS Poir. (Hooked Crowfoot.) Common.
 653 R. FASCICULARIS Muhl. (Early Crowfoot.) Campbell's Ledge.
 654 R. SEPTENTRIONALIS Poir. (Swamp Buttercup.) Common.
 655 R. REPENS L. (Creeping Buttercup.) Dunmore Cemetery, Pittston.
 656 R. PENNSYLVANICUS L. (Bristly Crowfoot.) Frequent.
 657 R. BULBOSUS L. (Bulbous Buttercup.) Not infrequent.
 658 R. ACRIS L. (Tall Buttercup.) A meadow pest.

THALICTRUM L. (Meadow Rue)

- 659 T. DIOICUM L. (Early Meadow Rue.) Rocky woods. Common.
 660 T. DASYCARPUM F. and L. Campbell's Ledge, Nicholson.
 661 T. POLYGAMUM Muhl. (Tall Meadow Rue.) Nicholson, frequent
 north of West Mountain.

ANEMONELLA Spach.

- 662 A. THALICTROIDES Spach. (Rue Anemone.) Common

HEPATICA Hill. (Liverleaf, Hepatica)

- 663 H. TRILOBA Chaix. Common
 664 H. ACUTILOBA DC. Common in Abington region. Have not seen it
 in the Lackawanna-Wyoming Valley.

ANEMONE L. (Wind Flower)

- 665 A. CYLINDRICA Gray .North of Luzerne, *Prof. Thurston*. Rare.
 666 A. VIRGINIANA L. White variety on Campbell's Ledge. Frequent.
 667 A. CANADENSIS L. Near Scranton Golf Grounds.
 668 A. QUINQUEFOLIA L. (Wood Anemone.) Margin of woods, common
 in Lackawanna County.

CLEMATIS L. (Virgin's Bower)

- 669 C. VIRGINIANA L. Common.
 670 C. VERTICILLARIS DC. Near tollgate on Northern Boulevard, near
 Archbald Pot-Hole, Bald Mount near bluff. Rare.

CALTHA L. (Marsh Marigold)

- 671 C. PALUSTRIS L. Common in marshes.
 672 C. PALUSTRIS, VAR. FLABELLIFOLIA T. and G. Pocono Summit spring.
 Naomi Pines, *Prof. Porter*.

TROLLIUS L. (Globe Flower)

- 673 T. LAXUS Salisb. (Spreading Globe Flower.) Monroe County, *Prof.*
Porter.

COPTIS Salisb. (Gold Thread)

- 674 C. TRIFOLIA Salisb. Common in moist woods.

HELLEBORUS L. (Hellebore)

- 675 H. VIRIDIS L. (Green Hellebore, Christmas Flower.) Reported near
 Schultzville.

NIGELLA L. (Fennel Flower)

- 676 N. DAMASCENA L. (Love in the Mist.) Near old Lackawanna Steel Mill.

AQUILEGIA L. (Columbine)

- 677 A. CANADENSIS L. Abundant on cliffs.
678 A. VULGARIS L. La Plume, Clarks Summit; escaped from cultivation.

DELPHINIUM L. (Larkspur)

- 679 D. AJACIS L. Pittston Junction.

CIMICIFUGA L. (Bugbane)

- 680 C. RACEMOSA Nutt. (Black Snakeroot, Black Cohosh.) Common in rocky woods.

ACTAEA L. (Baneberry, Cohosh)

- 681 A. RUBRA Willd. (Red Baneberry.) La Plume. Not frequent.
682 A. ALBA Mill. (White Baneberry.) Common in rich woods.

HYDRASTIS Ellis. (Orange-Root, Yellow Puccoon)

- 683 H. CANADENSIS L. (Golden Seal.) Only station reported near Tunkhannock by *Mr. Graham*, proprietor Graham Hotel.

MAGNOLIACEAE (Magnolia Family)

MAGNOLIA L.

- 684 M. ACUMINATA L. (Cucumber Tree.) Two uncultivated trees reported at Pine Hill, Wyoming County, by *Samuel Hawley*.

LIRIODENDRON L. (Tulip Tree)

- 685 L. TULIPIFERA L. (Yellow Poplar or Whitewood.) Abundant in Abingtons.

MENISPERMACEAE (Moonseed Family)

MENISPERMUM L. (Moonseed)

- 686 M. CANADENSE L. Road to Pocono Knob from Stroudsburg, Susquehanna, near Kingston. Rare.

BERBERIDACEAE (Barberry Family)

PODOPHYLLUM L. (May Apple, Mandrake)

- 687 P. PELTATUM L. Common in rich woods.

JEFFERSONIA Barton. (Twinleaf)

- 688 J. DIPHYLLA Pers. Susquehanna, *Prof. James A. Graves*.

CAULOPHYLLUM Michx. (Blue Cohosh)

- 689 C. THALICTROIDES Michx. (Pappoose Root.) Deep rich woods. Occasional.

BERBERIS L. (Barberry)

- 690 B. VULGARIS L. (Common Barberry.) Local; a pest near Waverly and Wallsville.

LAURACEAE (Laurel Family)

SASSAFRAS Nees.

- 691 *S. VARIIFOLIUM* Ktze. (Sassafras.) Frequent.

BENZOIN Fabric. (Wild Allspice, Fever Bush)

- 692 *B. AESTIVALE* Nees. (Spice Bush, Benjamin Bush.) Common.

PAPAVERACEAE (Poppy Family)

SANGUINARIA L. (Bloodroot)

- 693 *S. CANADENSIS* L. (Bloodroot.) Gravel Pond, Nicholson, north of viaduct along creek.

CHELIDONIUM L. (Celandine)

- 694 *C. MAJUS* L. Common in rich, damp soil.

PAPAVER L. (Poppy)

- 695 *P. SOMNIFERUM* L. (Common Poppy.) Pittston Junction, near dwellings.

- 696 *P. DUBIUM* L. Waverly, J. A. Linen farm, *H. D. Dunn*.

FUMARIACEAE (Fumitory Family)

ADLUMIA Raf. (Climbing Fumitory)

- 697 *A. FUNGOSA* Green. Abundant in Abingtons, Lake Sheridan.

DICENTRA Bernh.

- 698 *D. CUCULLARIA* Bernh. (Dutchman's Breeches.) Common in Abingtons, Moscow.

- 699 *D. CANADENSIS* Walp. (Squirrel Corn.) La Plume, Chinchilla, Moscow. Rare in two valleys.

- 700 *D. SPECTABILIS*. (Bleeding Heart.) Escaped from cultivation.*

CORYDALIS Medic.

- 701 *C. SEMPERVIRENS* Pers. Not uncommon on rocks.

CRUCIFERAE (Mustard Family)

DRABA L.

- 702 *D. VERNA* L. (Whitlow Grass.) Along Susquehanna opposite Wilkes-Barre.

BERTEROA DC.

- 703 *B. INCANA* DC. West of Salyorsburg, Monroe County.

ALYSSUM L.

- 704 *A. ALYSSOIDES* L. (Yellow or small Alyssum.) Pike County, *Prof. Porter*.

THLASPA L. (Penny Cress)

- 705 *T. ARVENSE* L. Near Griffin's Pond, *H. D. Dunn*.

LEPIDIUM L. (Pepper Grass)

- 706 *L. VIRGINICUM* L. (Wild Peppergrass.) A common weed.

- 707 *L. RUDERALE* L. Near Coxton.

- 708 *L. SATIVUM* L. (Garden Cress.) Near Elk Mountain.
 709 *L. CAMPESTRE* R. Br. Dunmore Cemetery, No. 6, Dunmore.

CAPSELLA Medic. (Shepherd's Purse)

- 710 *C. BURSA-PASTORIS* Medic. Common.

CAMELINA Crantz. (False Flax)

- 711 *C. MICROCARPA* Andrz. Chinchilla, Griffin's Pond, *H. D. Dunn*.

RAPHANUS L. (Radish)

- 712 *R. SATIVUS* L. Old truck farms in Wyoming Valley.

BRASSICA L. (Mustard, Turnip)

- 713 *B. ALBA* Boiss. (White Mustard.) Swetland Street, Scranton.
 714 *B. ARVENSIS* Ktze. Near Nay Aug Park, Prescott Avenue.
 715 *B. JUNCEA* Cosson. Chinchilla.
 716 *B. NIGRA* Koch. Common.
 717 *B. OLERACEA* L. (Cabbage.) Kingston, *Thurston*.

CONRINGIA Link. (Hare's Ear Mustard)

- 718 *C. ORIENTALIS* Dumort. Wyoming, Keyser Valley.

SISYMBRIUM L. (Hedge Mustard)

- 719 *S. OFFICINALE* Scop. Common.
 720 *S. ALTISSIMUM* L. (Tumble Mustard.) O. and W. Yard, Scranton.
 721 *S. THALIANUM* Gay. Kingston Flats.

HESPERIS L. (Rocket)

- 722 *H. MATRONALIS* L. (Dame's Violet.) Stroudsburg, Uniondale.
 Spreading from cultivation.

ERYSIMUM L. (Treacle Mustard)

- 723 *E. CHEIRANTHOIDES* L. (Worm-Seed Mustard.) Lincoln Heights, O.
 and W. Yard.

RADICULA Hill. (Water Cress)

- 724 *R. NASTURTIUM-AQUATICUM* B. and R. (True Water Cress.) Common.
 725 *R. SYLVESTRIS* Druce. (Yellow Cress.) Susquehanna.
 726 *R. PALUSTRIS* Moench. (Marsh Cress.) Common.
 727 *R. PALUSTRIS*, VAR. *HISPIDA* Rob. Wyoming.
 728 *R. ARMORACIA* Rob. (Horseradish.) Frequent

BARBAREA R. Br. (Winter Cress)

- 729 *B. VULGARIS* R. Br. (Common Winter Cress, Yellow Rocket.) Common.

DENTARIA L. (Toothwort, Pepper-Root)

- 730 *D. DIPHYLLA* Michx. Near Scranton Golf Grounds. Frequent.
 731 *D. LACINIATA* Muhl. Tunkhannock Creek, Nicholson. Not common.

CARDAMINE L. (Bitter Cress)

- 732 *C. BULBOSA* BSP. (Spring Cress.) Kingston. *Hawley, Dr. L. W. Ross*.

- 733 *C. PRATENSIS* L. (Cuckoo Flower.) Hawley, *Dr. L. W. Ross*.
 734 *C. PARVIFLORA* L. Kingston Flats.
 735 *C. PENNSYLVANICA* Muhl. Kingston Flats.

ARABIS L. (Rock Cress)

- 736 *A. LYRATA* L. Common on cliffs.
 737 *A. DENTATA* T. and G. Frequent.
 738 *A. GLABRA* Bernh. (Tower Mustard.) Near Taylor, D., L. and W. Railroad. Not common.
 739 *A. HIRSUTA* Scop. Taylor Ledge.
 740 *A. LAEVIGATA* Poir. Kingston.
 741 *A. CANADENSIS* L. (Sickle-Pod.) Campbell's Ledge.

CAPPARIDACEAE (Caper Family)

POLANISIA Raf.

- 742 *P. GRAVEOLENS* Raf. Susquehanna near Nanticoke.

SARRACENIACEAE (Pitcher-Plant Family)

SARRACENIA L.

- 743 *S. PURPUREA* L. (Side-Saddle Flower, Pitcher-Plant.) Common in swamps.
 744 *S. PURPUREA*, VAR. *HETEROPHYLLA* Torr. Bassett's Pond, *H. D. Dunn*. Not frequent.

DROSERACEAE (Sundew Family)

DROSER A L. (Sundew)

- 745 *D. ROTUNDIFOLIA* L. (Round-Leaved Sundew.) Rocky Glen, Birdseye, Moosic Lake.
 746 *D. LONGIFOLIA* L. Maplewood, Lehigh Pond, Pocono Pines.

CRASSULACEAE (Orpine Family)

PENTHORUM L. (Ditch Stonecrop)

- 747 *P. SEDOIDES* L. Open wet places. Common.

SEDUM L. (Stonecrop)

- 748 *S. ACRE* L. (Mossy Stonecrop.) Clarks Summit, D., L. and W. Railroad. Big colony on ledge of rocks by Fleetville road from Waverly.
 749 *S. PURPUREUM* Tausch. (Live-Forever.) Frequent escape.
 750 *S. ROSEUM*, Scop. (Roseroot.) High cliffs opposite Port Jarvis, *Prof. Porter*.

SAXIFRAGACEAE (Saxifrage Family)

SAXIFRAGA L. (Saxifrage)

- 751 *S. PENNSYLVANICA* L. Swamp south of Clarks Summit, Kingston.
 752 *S. VIRGINIENSIS* Michx. (Early Saxifrage.) Common in wet places.

TIARELLA L. (False Miterwort)

- 753 T. CORDIFOLIA L. Common.

HEUCHERA L. (Alum Root)

- 754 H. AMERICANA L. Common in Monroe County. Not reported in Lackawanna County.

MITELLA L. (Miterwort, Bishop's Cap)

- 755 M. DIPHYLLA L. Frequent.
756 M. NUDA L. Swamp on Pocono northeast of Tobyhanna. Rare.

CHRYSOSPLENIUM L. (Golden Saxifrage)

- 757 C. AMERICANUM Schwein. Common in cold, wet places.

HYDRANGEA L.

- 758 H. ARBORESCENS L. (Wild Hydrangea.) Frequent along mountain streams.

RIBES L. (Currant, Gooseberry)

- 759 R. CYNOSBATI L. (Prickly Gooseberry.) Common in rocky woods.
760 R. ROTUNDIFOLIUM Michx. Less common than the above.
761 R. OXYCANTHOIDES L. (Smooth Gooseberry.) Monroe County, *Prof. Porter*.
762 R. FLORIDUM L'Her. (Wild Black Currant.) Near Hawley.
763 R. NIGRUM L. (Black Currant of Gardens.) Clarks Green.
764 R. LACUSTRE Poir. (Swamp Black Currant.) Elk Mountain. Rare.
765 R. PROSTRATUM L'Her. (Skunk Currant.) Tobyhanna and adjacent regions.
766 R. VULGARE Lam. (Red Currant of Gardens.) Occasional escape. Near Woodward Breaker, Kingston; Fuller Farm, Waverly.
767 R. AUREUM Pursh. (Missouri or Buffalo Currant.) Dalton.

HAMAMELIDACEAE (Witch-Hazel Family)

HAMAMELIS L. (Witch-Hazel)

- 768 H. VIRGINIANA L. Common.

PLATANACEAE (Plane Tree Family)

PLATANUS L. (Sycamore, Buttonwood)

- 769 P. OCCIDENTALIS L. Frequent along creeks and rivers.

ROSACEAE (Rose Family)

PHYSOCARPUS Maxim. (Nine Bark)

- 770 P. OPULIFOLIUS Maxim. Along the Susquehanna.

SPIRAEA L.

- 771 S. SALICIFOLIA L. (Meadow Sweet.) Abundant.
772 S. TOMENTOSA L. (Hardhack, Steeple Bush.) Frequent.

ARUNCUS Adans.

- 773 A. SYLVESTER Kosteletzsky. Along Fleetville road from Waverly.

SORBARIA A. Br.

- 774 S. SORBIFOLIA A. Br. Green Ridge near D. and H. Depot, Waverly.

GILLENIA Moench. (Indian Physic)

- 775 G. TRIFOLIATA Moench. Campbell's Ledge, Penobscot Knob.

PYRUS L.

- 776 P. COMMUNIS L. (Wild Pear.) Near Griffin Reservoir. Several trees east of Waverly on the Carbondale road.
777 P. CORONARIA L. (American Crab.) Moosic, Newton Township.
778 P. LANCIFOLIA Rehder. The common crab apple of this section*

NOTE—Dr. C. S. Sargent in a letter to the author under date of Nov. 22, 1915, says, "The Scranton crab apple which was formerly called *Malus angustifolia* is the type of *Malus lancifolia* Rehder. It is this tree which has always been mistaken for the true *Malus angustifolia* which is a southern species."

- 779 P. MALUS L. (Apple.) Frequent. Spontaneous.
780 P. ARBUTIFOLIA L. (Chokeberry.) This species with red fruit is common.
781 P. MELANOCARPA Willd. This black-fruited chokeberry is common.
782 P. AMERICANA DC. (American Mountain Ash.) Bald Mount, Newton Lake. Rather abundant on the Pocono but rare elsewhere.

AMELANCHIER Medic. (June Berry)

- 783 A. CANADENSIS Medic. (Shad Bush, Service Berry.) Common.
784 A. SPICATA C. Koch. Hawley, *Dr. Lloyd Ross*.
785 A. OLIGOCARPA Roem. Naomi Pines, *Dr. Porter*. Rare.

CRATAEGUS L. (Hawthorn)

- 786 C. OXYCANTHA L. (English Hawthorn.) Several shrubs north of Dundaff, *Prof. Dudley*. A rare escape from gardens.
787 C. CRUS-GALLI L. (Cockspur Thorn.) Abundant back of Plymouth and Wilkes-Barre. Not reported in Lackawanna Valley.
788 C. PORTERI Britton. See Britton's Manual, page 520.*
789 C. EVANSIANA Sargt. Near Dalton. (Identified by W. W. Ashe.)*
790 C. NEO-CANBYI Sargt. Hillside between Stroudsburg and Tannersville, *W. M. Canby and Prof. Sargent*. Page 638 *Crataegus* of Easton Pa., by C. S. Sargent.*
791 C. PUNCTATA Jacq. Most common in two valleys.
792 C. PUNCTATA, VAR. AUREA Ait. (Yellow Fruited Hawthorn.) Keyser Valley, Spring Brook. Not uncommon.
793 C. PUNCTATA, VAR. RUBRA Ait. (Red Fruited Hawthorn.) Occasional. Chinchilla.
794 C. COCCINEA L. Near Dalton.
795 C. BILTMOREANA Beadle. Two miles south of Stroudsburg, *Prof. Porter*.
796 C. DELTOIDES Ashe. Moosic Lake, *C. H. Scharar*.
797 C. POPULNEA Ashe. Keyser Valley near car shops.
798 C. MACRACANTHA Lodd. Duryea, Lower Lackawanna Valley, Lincoln Heights.
799 C. INDUCTA, Ashe. Keyser Valley, northwest of car shops.*

Dr. C. S. Sargent, Director of the Arnold Arboretum and the highest authority on trees and shrubs, after a study of dried specimens as well as the living trees on the ground in most cases, has classified and named the following local *Crataegus*. The descriptions of these species were published in the proceedings of the Philadelphia Academy of Natural Sciences, January, February, March number, 1910:

- 800 *C. DUNMORENSIS* Sargt. Near corner of Electric Street and Jefferson Avenue, Dunmore.
- 801 *C. INCOMPTA* Sargt. Maloney Home, Scranton.
- 802 *C. CONJUNCTA* Sargt. Keyser Valley, near car shop.
- 803 *C. PUTA* Sargt. Lincoln Heights.
- 804 *C. PYRAMIDATA* Sargt. Country Club, Dunmore Lithuanian Cemetery.
- 805 *C. IMPERVA* Sargt. Dunmore.
- 806 *C. DELECTATA* Sargt. Keyser Valley.
- 807 *C. VEGANDIS* Sargt. Maloney Home.
- 808 *C. EFFERA* Sargt. Taylor Hill, Country Club.
- 809 *C. CAERULIA* Sargt. Lincoln Heights, Keyser Valley.
- 810 *C. TENELLA* Ashe. Throop railroad crossing, Dunmore.
- 811 *C. ANGUSTISEPALA* Sargt. Chinchilla.
- 812 *C. FLAMMATA* Sargt. Birdseye.
- 813 *C. RUFIPE* Ashe. Keyser Valley, north of car shops.
- 814 *C. PROPENSA* Sargt. Keyser Valley.
- 815 *C. GENEALIS* Sargt. Lincoln Heights.
- 816 *C. HOLMESIANA* Ashe. Keyser Valley, one tree near Wilkes-Barre; common about Waverly.
- 817 *C. ROTUNDIFOLIA*, VAR. *COCCINEA*. Keyser Valley.
- 818 *C. DODGEI* Ashe. Lincoln Heights.
- 819 *C. SCOPULORUM* Sargt. Campbell's Ledge.
- 820 *C. TWININGI* Sargt. Lincoln Heights.
- 821 *C. APPPOSITA* Sargt. Keyser Valley.
- 822 *C. ERRATA* Sargt. Keyser Valley.
- 823 *C. PROPEXA* Sargt. Campbell's Ledge.
- 824 *C. DIAPHORA* Sargt. Keyser Valley.
- 825 *C. AGAIA* Sargt. Keyser Valley near old pest house.

FRAGARIA L. (Strawberry)

- 826 *F. VIRGINIANA* Duchesne. Common.
- 827 *F. VESCA* L. Common.
- 828 *F. VESCA*, VAR. *ALBA* Rydb. This variety has been collected at Moscow and Elk Mountain. It has been reported as abundant in Wayne County.
- 829 *F. VESCA*, VAR. *AMERICANA* Porter. Common in all rocky woods.

WALDSTEINIA Willd.

- 830 *W. FRAGARIOIDES* Trattinick. Common.

POTENTILLA L. (Cinquefoil, Five-Finger)

- 831 *P. ARGUTA* Pursh. Top of Campbell's Ledge. Rare.
- 832 *P. MONSPELIENSIS*, VAR. *NORVEGICA* Rydb. Common.
- 833 *P. ARGENTEA* L. (Silvery Cinquefoil.) Common.
- 834 *P. RECTA* L. Wyoming, *Prof. R. N. Davis*.

- 835 *P. PALUSTRIS* Scop. (Marsh Potentilla.) Wyoming Swamp, Lehigh Pond.
 836 *P. FRUTICOSA* L. (Shrubby Cinquefoil.) Monroe and Pike, *Prof. Porter*.
 837 *P. TRIDENTATA* Ait. (Three-Toothed Cinquefoil.) Penobscot Knob and Bald Mount are the only stations known within limits.
 838 *P. CANADENSIS* L. (Common Cinquefoil.) A very common weed.

FILIPENDULA Hill.

- 839 *F. RUBRA* Rob. (Queen of the Prairie.) Lake Henry, Waverly.
 840 *F. ULMARIA* Maxim. (Queen of the Meadow.) Mount Pocono, Waverly.

GEUM L. (Avens)

- 841 *G. CANADENSE* Jacq. Frequent.
 842 *G. FLAVUM* Bicknell. (Cream-Colored Avens.) Luzerne County, *Prof. Porter*.
 843 *G. VIRGINIANUM* L. Occasional.
 844 *G. STRICTUM* Ait. Lake Winola, Tobyhanna.
 845 *G. RIVALE* L. (Purple Avens.) Lake Henry.

RUBUS L. (Bramble)

- 846 *R. IDAEUS* L. North Chinchilla reservoir gorge.
 847 *R. IDAEUS*, VAR. *ACULEATISSIMUS* R. and T. (Wild Red Raspberry.) Common.
 848 *R. NEGLECTUS* Peck. Lake Scranton gorge, Mount Ararat. Rather frequent.
 849 *R. PHOENICOLASIUS* Maxim. (Wineberry.) Escape, near Water Gap.
 850 *R. OCCIDENTALIS* L. (Black Raspberry.) Common.
 851 *R. ODORATUS* L. (Purple Flowering Raspberry.) Common.
 852 *R. TRIFLORUS* Richards. (Dwarf Raspberry.) Pocono, *Dudley*. Not common.
 853 *R. ALLEGHENIENSIS* Porter. Common.
 854 *R. CANADENSIS* L. (Millspaugh's Blackberry.) Tobyhanna, *Prof. Porter*.
 855 *R. SETOSUS* Bigel. Swamps, Naomi Pines.
 856 *R. NIGRICANS* Rydb. (Bristly Blackberry.) Naomi Pines, *Prof. Porter*.
 857 *R. HISPIDUS* L. Frequent in swamps.
 858 *R. VILLOSUS* Ait. (Dewberry.) Common.
 859 *R. VILLOSUS*, VAR. *HUMIFUSUS* T. & G. Monroe County, *Prof. Porter*.

DALIBARDA Kalkalm.

- 860 *D. REPENS* L. Tobyhanna, Lake Henry, Gouldsboro. Not uncommon.

AGRIMONIA L. (Agrimony)

- 861 *A. STRIATA* Michx. Common.
 862 *A. MOLLIS* Britton. Monroe County, *Prof. Porter*.
 863 *A. PARVIFLORA* Ait. North end of Glenburn Pond.

SANGUISORBA L. (Burnet)

- 864 *S. CANADENSIS* L. (Canadian Burnet.) Paupack Falls, Hawley, *Dr. L. W. Ross*.

ROSA L. (Rose)

- 865 R. BLANDA Ait. Near Speedway of Elmhurst Boulevard.
866 R. CINNAMOMEA L. (Cinnamon Rose.) Factoryville.
867 R. CANINA L. (Dog Rose.) One plant toward river at Forty Fort;
by road at base of cliff opposite Campbell's Ledge, Thurston.
868 R. RUBIGINOSA L. (Sweetbrier, Eglantine.) Common.
869 R. CAROLINA L. Lake Henry, swamp islands.
870 R. HUMILIS Marsh. Frequent on mountains.

PRUNUS L. (Plum, Cherry, Etc.)

- 871 P. SEROTINA Reichenb. (Wild Black Cherry.) Abundant.
872 P. VIRGINIANA L. (Choke Cherry.) Common.
873 P. PENNSYLVANICA L. (Wild Red, Bird, Fire or Pin Cherry.) Fre-
quent.
874 P. INSTITITIA L. (Bullace Plum.) Frequent colonies at old farms.
875 P. CUNEATA Raf. Birdseye, Bald Mount. Not common.
876 P. PUMILA L. (Sand Cherry.) Lackawaxen.
877 P. AVIUM L. (Sweet Cherry, Mazzard.) Spontaneous from culti-
vated trees.
878 P. CERASUS L. (Sour or Morello Cherry.) Frequent escape.
879 P. AMERICANA Marsh. (Wild Plum.) North Chinchilla, near Griffin
Reservoir.
880 P. PERSICA Stokes. (Peach.) Spontaneous.

LEGUMINOSAE (Pulse Family)

GLEDITSIA L. (Honey Locust)

- 881 G. TRIACANTHOS L. (Honey Locust.) One tree along Susquehanna at
South Wilkes-Barre, S. Washington Avenue, Scranton. Un-
common.

CASSIA L. (Senna)

- 882 C. MARILANDICA L. (Wild Senna.) Old Forge, old canal at Nanti-
coke. Rare.
883 C. CHAMAECRISTA L. (Partridge Pea.) Wyoming, Coxton.
884 C. NICTITANS L. (Wild Sensitive Plant.) Frequent.

BAPTISIA Vent. (False Indigo)

- 885 B. TINCTORIA R. Br. (Wild Indigo.) Abundant in dry woods.

CROTALARIA L. (Rattle-Box)

- 886 C. SAGITTALIS L. Susquehanna, *Prof. James A. Graves*; Coxton,
C. H. Scharar.

LUPINUS L. (Lupine)

- 887 L. PERENNIS L. Common.

TRIFOLIUM L. (Clover)

- 888 T. ARVENSE L. (Rabbit-Foot Clover.) Abundant at Tunkhannock,
Taylor, base of Lake Scranton dam, base of Campbell's Ledge.
889 T. INCARNATUM L. (Crimson Clover.) Coxton, Wyoming.
890 T. PRATENSE L. (Red Clover.) Common.
891 T. REPENS L. (White Clover.) Common.

- 892 *T. HYBRIDUM* L. (Alsike Clover.) Common.
 893 *T. AGRARIUM* L. (Yellow or Hop Clover.) Frequent.
 894 *T. PROCUMBENS* L. (Low Hop Clover.) Frequent.

MELILOTUS Hill. (Melilot, Sweet Clover)

- 895 *M. OFFICINALIS* Lam. (Yellow Sweet Clover.) O. and W. Yard, Scranton; D. and H. tracks near Carbon Street. Not common.
 896 *M. ALBA* Desr. (White Sweet Clover.) Occasional through the two valleys.

MEDICAGO L. (Medick)

- 897 *M. SATIVA* L. (Alfalfa.) Not infrequent.
 898 *M. LUPULINA* L. (Black Medick.) Common.

TEPHROSIA Pers. (Hoary Plea)

- 899 *T. VIRGINIANA* Pers. (Goat's Rue.) Campbell's Ledge, Penobscot Mountain.

ROBINIA L. (Locust)

- 900 *R. PSEUDO-ACACIA* L. (Common Locust.) Frequent, especially along streams.
 901 *R. HISPIDA* L. (Rose Acacia.) Occasional escape.

ASTRAGALUS L. (Milk Vetch)

- 902 *A. CANADENSIS* L. Brandt, Susquehanna County, *Dr. Lloyd Ross*.

DESMODIUM Desv. (Tick Trefoil)

- 903 *D. NUDIFLORUM* DC. Campbell's Ledge.
 904 *D. GRANDIFLORUM* DC. Penobscot Knob.
 905 *D. ROTUNDIFOLIUM* DC. Campbell's Ledge.
 906 *D. CANESCENS* DC. Birdseye.
 907 *D. BRACTEOSUM* DC. Campbell's Ledge.
 908 *D. DILLENII* Darl. Campbell's Ledge.
 909 *D. PANICULATUM* DC. Frequent on Wyoming Valley mountains.
 910 *D. CANADENSE* DC. Birdseye.
 911 *D. RIGIDUM* DC. Campbell's Ledge.
 912 *D. OBTUSUM* DC. Susquehanna.
 913 *D. MARILANDICUM* DC. Susquehanna.

LESPEDEZA Michx. (Bush Clover)

- 914 *L. PROCUMBENS* Michx. Campbell's Ledge.
 915 *L. REPENS* Bart. Campbell's Ledge.
 916 *L. VIOLACEA* Pers. Frequent.
 917 *L. VIRGINICA* Britton. Eddy Creek.
 918 *L. FRUTESCENS* Britton. Campbell's Ledge.
 919 *L. HIRTA* Hornem. Frequent.
 920 *L. CAPITATA* Michx. Penobscot.

VICIA L. (Vetch, Tare)

- 921 *V. SATIVA* L. (Spring Vetch.) Near Nay Aug Park.
 922 *V. TETRASPERMA* Moench. Dunmore, *Prof. R. N. Davis*.
 923 *V. CRACCA* L. Moosic Lake.
 924 *V. CAROLINIANA* Walt. Gravel Pond.

- 925 *V. AMERICANA* Muhl. Wyoming.
 926 *V. ARIETINUM* L. (Chick Pea.) Linden Street dump. Identified by
*Dr. J. K. Small.**

LATHYRUS L. (Vetchling, Everlasting Pea)

- 927 *L. PALUSTRIS* L. Kingston, *Prof. Thurston*.
 928 *L. PALUSTRIS*, VAR. *MYRTIFOLIUS* Gray. Monroe and Luzerne Counties.
Prof. Porter.
 929 *L. VENOSUS* Muhl. Wyoming.
 930 *L. OCHROLEUCUS* Hook. Gravel Pond.

APIOS Ludwig. (Groundnut, Wild Bean)

- 931 *A. TUBEROSA* Moench. Wyoming, Taylor along bank of D., L. and W.

AMPHICARPA Ell. (Hog Peanut)

- 932 *A. MONOICA* Ell. Common.

LINACEAE (Flax Family)

LINUM L. (Flax)

- 933 *L. USITATISSIMUM* L. (Common Flax.) Occasional along railroads.
 934 *L. SULCATUM* Riddell. Campbell's Ledge. Rare.
 935 *L. VIRGINIANUM* L. Abundant on high points.

OXALIDACEAE (Wood Sorrel Family)

OXALIS L. (Wood Sorrel)

- 936 *O. ACETOSELLA* L. (Common Wood Sorrel.) Common.
 937 *O. VIOLACEA* L. (Violet Wood Sorrel.) Near Stroudsburg, Tilbury
 Knob.
 938 *O. STRICTA* L. Common.
 939 *O. CORNICULATA* L. (Lady's Sorrel.) Near Glenburn, *Carl H. H.*
Baumann.
 940 *O. REPENS* Thunb. Clay Avenue, Scranton, in the greenhouse of Mrs.
 H. M. Boies. Morel's greenhouses, Green Ridge.

GERANIACEAE (Geranium Family)

GERANIUM L. (Cranesbill)

- 941 *G. MACULATUM* L. Common.
 942 *G. ROBERTIANUM* L. (Herb Robert.) Common.
 943 *G. CAROLINIANUM* L. Wyoming, Plainsville. Occasional.
 944 *G. BICKNELLI* Britton. Rocky Glen, *C. H. Scharar*.
 945 *G. PUSILLUM* Burm. Scranton Post Office grounds, Valentine Bliss
 farm, Waverly.

ERODIUM L'Her. (Storksbill)

- 946 *E. CICUTARIUM* L'Her. Kingston flats. Rare.

RUTACEAE (Rue Family)

ZANTHOXYLUM L. (Prickly Ash)

- 947 Z. AMERICANUM Mill. (Northern Prickly Ash, Toothache Tree.)
Bank along reservoir at Chinchilla. One mile west of Factory-
ville.

PTELEA L. (Hop Tree)

- 948 P. TRIFOLIATA L. Near Susquehanna, *Prof. J. A. Graves*.

SIMARUBACEAE (Quassia Family)

AILANTHUS Desf. (Tree of Heaven)

- 949 A. GLANDULOSA Desf. A frequent escape.

POLYGALACEAE (Milkwort Family)

POLYGALA L. (Milkwort)

- 950 P. PAUCIFOLIA Willd. (Fringed Polygala.) Common.
951 P. SANGUINEA L. Near Throop, abundant near Elmhurst reservoir,
Waverly.
952 P. NUTTALLII T. & G. Pike County, *Prof. Porter*.
953 P. VERTICILLATA L. Campbell's Ledge, near Taylor.
954 P. VERTICILLATA, VAR. AMBIGUA Wood. Mocanaqua, *Dudley*.

EUPHORBIACEAE (Spurge Family)

ACALYPHA L. (Three-Seeded Mercury)

- 955 A. VIRGINICA L. Frequent.

RICINUS L. (Castor-Oil Plant)

- 956 R. COMMUNIS L. Linden Street dump, Scranton. Spontaneous.

EUPHORBIA L. (Spurge)

- 957 E. PRESII Guss. Frequent.
958 E. MACULATA L. (Milk Purslane.) Very common.
959 E. COROLLATA L. (Flowering Spurge.) Wyoming.
960 E. DARLINGTONII Gray. Herrick Center, *H. D. Dunn*.
961 E. CYPARISSIAS L. (Cypress Spurge.) Near Gravel Pond, Nicholson.
Waverly.
962 E. PEPLUS L. (Petty Spurge.) Sweetland Street, Scranton.
963 E. LATHYRUS L. (Caper Spurge, Mole Plant.) Uniondale.

CALLITRICHACEAE (Water Starwort Family)

CALLITRICHE L. (Water Starwort)

- 964 C. DEFLEXA, VAR. AUSTINI Hegelm. Tobyhanna Mills, *Prof. Porter*.
965 C. PALUSTRIS L. Susquehanna, *J. A. Graves*.
966 C. HETEROPHYLLA Pursh. Lake Henry, Pocono springs, Tobyhanna.

LIMNANTHACEAE (False Mermaid Family)

FLOERKEA Willd. (False Mermaid)

- 967 F. PROSERPINACOIDES Willd. Under Kingston pond hole bridge.

ANACARDIACEAE (Cashew Family)

RHUS L. (Sumach)

- 968 R. TYPHINA L. (Staghorn Sumach.) Very common.
969 R. GLABRA L. (Smooth Sumach.) Common.
970 R. COPALLINA L. (Dwarf Sumach.) Less common than the above.
971 R. VERNIX L. (Poison Elder, Sumach or Dogwood.) Grows in swamps. Found at Atherton's Pond, Lily Lake, near Big Birdseye.
972 R. TOXICODENDRON L. (Poison Ivy, Poison Oak.) Common.

AQUIFOLIACEAE (Holly Family)

ILEX L. (Holly)

- 973 I. MONTICOLA Gray. Lake Scranton, Moosic Lake, Elk Mountain.
974 I. MONTICOLA, VAR. MOLLIS Britton. North end of Nay Aug Tunnel, Lehigh Pond.
975 I. VERTICILLATA Gray. Lake Scranton, Big Birdseye.
976 I. VERTICILLATA, VAR. CYCLOPHYLLA Robinson. Monroe and Luzerne, Prof. Porter.
977 I. LAEVIGATA Gray. Lake Winola. Not common.

NEMOPANTHUS Raf. (Mountain Holly)

- 978 N. MUCRONATA Trel. Common in damp, cool mountain woods.

CELASTRACEAE (Staff Tree Family)

EVONYMUS L. (Spindle Tree)

- 979 E. ATROPURPUREUS Jacq. (Burning Bush, Waahoo.) Tannersville.
980 E. EUROPAEUS L. (European Spindle Tree.) Nicholson.

CELASTRUS L. (Staff Tree, Shrubby Bitter-Sweet)

- 981 C. SCANDENS L. (Waxwork, Climbing Bitter-Sweet.) Frequent in both valleys.

STAPHYLEACEAE (Bladder Nut Family)

STAPHYLEA L. (Bladder Nut)

- 982 S. TRIFOLIA L. (American Bladder Nut.) Campbell's Ledge, Bowman's creek, near Stroudsburg. Rare.

ACERACEAE (Maple Family)

ACER L. (Maple)

- 983 A. PENNSYLVANICUM L. (Striped Maple.) Common on mountains.
984 A. SPICATUM Lam. (Mountain Maple.) Clarks Summit, Archbald, Bald Mount.

- 985 *A. SACCHARUM* Marsh. (Sugar or Rock Maple.) Common.
 986 *A. SACCHARUM*, VAR. *NIGRUM* Britton. (Black Sugar Maple.) Peck farm, Moscow.
 987 *A. SACCHARINUM* L. (White or Silver Maple.) Common along Susquehanna.
 988 *A. RUBRUM* L. (Red or Swamp Maple.) Common.
 989 *A. NEGUNDO* L. (Box Elder.) Drinker Street, Dunmore, Summit Lake. Not indigenous.

SAPINDACEAE (Soapberry Family)

AESCULUS L. (Horse Chestnut)

- 990 *A. HIPPOCASTANUM* L. (Common Horse Chestnut.) Common in cultivation. Occasional escape.

BALSAMINACEAE (Touch-Me-Not-Family)

IMPATIENS L. (Balsam, Jewelweed)

- 991 *I. PALLIDA* Nutt. Common along Susquehanna.
 992 *I. BIFLORA* Walt. (Spotted Touch-Me-Not.) Common.

RHAMNACEAE (Buckthorn Family)

CEANOTHUS L. (Red-Root)

- 993 *C. AMERICANUS* L. (New Jersey Tea.) Common in dry woods.

VITACEAE (Vine Family)

PSEDERA Neck. (Virginia Creeper, Woodbine)

- 994 *P. QUINQUEFOLIA* Greene. Common.

VITIS L. (Grape)

- 995 *V. LABRUSCA* L. (Northern Fox Grape.) Waverly. Not rare.
 996 *V. AESTIVALIS* Michx. (Summer or Pigeon Grape.) Opposite Plymouth. More common in the Wyoming Valley than elsewhere.
 997 *V. BICOLOR* Le Conte. (Summer Grape.) Monroe County, *Prof. Porter*.
 998 *V. CORDIFOLIA* Michx. (Frost or Chicken Grape.) Common.
 999 *V. VULPINA* L. (River-Bank or Frost Grape.) Along the Susquehanna.

TILIACEAE (Linden Family)

TILIA L. (Linden, Basswood)

- 1000 *T. AMERICANA* L. (Basswood.) Common.
 1001 *T. MICHAUXII* Nutt. Opposite Laurel Line power plant.
 1002 *T. HETEROPHYLLA* Vent. Taylor woods, Dunmore. Identified by Dr. Sargent.

MALVACEAE (Mallow Family)

ABUTILON Mill. (Indian Mallow)

- 1003 A. THEOPHRASTI Medic. (Velvet Leaf.) Falls, along Susquehanna, Dunmore, West Scranton. Occasional.

ALTHAEA L. (Marsh Mallow)

- 1004 A. ROSEA Cav. (Hollyhock.) Frequently persists for several years.

MALVA L. (Mallow)

- 1005 M. ROTUNDIFOLIA L. (Common Mallow, Cheeses.) Common.
1006 M. VERTICILLATA L. La Plume.
1007 M. SYLVESTRIS L. (High Mallow.) Susquehanna, J. A. Graves.
1008 M. MOSCHATA L. (Musk Mallow.) Occasional in fields.
1009 M. ALCEA L. Waverly.

HYPERICACEAE (Saint John's Wort Family)

HYPERICUM L. (St. John's Wort)

- 1010 H. ASCYRON L. (Great St. John's Wort.) Tunkhannock, Coxton.
1011 H. PERFORATUM L. (Common S.) Common.
1012 H. PUNCTATUM Lam. Common.
1013 H. ADPRESSUM Bart. Freytown, near Moscow.
1014 H. ELLIPTICUM Hook. Elmhurst.
1015 H. MUTILUM L. Common.
1016 H. CANADENSE L. Lake Winola, Pocono Summit.
1017 H. GENTIANOIDES BSP. (Orange Grass, Pinweed.) Dry fields in Wyoming Valley.
1018 H. VIRGINICUM L. (Marsh S.) Common.

CISTACEAE (Rockrose Family)

HELIANTHEMUM Mill. (Rockrose)

- 1019 H. CANADENSE Michx. (Frostweed.) Campbell's Ledge, Fairview.

LECHEA L. (Pinweed)

- 1020 L. VILLOSA Ell. Wyoming.
1021 L. MINOR L. Campbell's Ledge.
1022 L. INTERMEDIA Leggett. Common.
1023 L. RACEMULOSA Lam. Penobscot Knob.

VIOLACEAE (Violet Family)

VIOLA L. (Violet)

- 1024 V. PEDATA L. (Bird-Foot Violet.) Tilbury Knob, Pocono Knob. Local, rare. Not reported in Lackawanna Valley.
1025 V. CUCULLATA Ait. (Common Blue Violet.) Very common. A white variety of this species has been collected at Connell Junction and elsewhere. Another apparent variety of the same species collected on the Scranton golf grounds is possibly the V. septemlobata of Brainerd.

- 1026 *V. PAPILIONACEA* Pursh. Eddy Creek. Common.
 1027 *V. PALMATA* L. Frequent about Scranton.
 1028 *V. TRILOBA* Schwein. Woods near Taylor.
 1029 *V. SORORIA* Willd. Lake Winola.
 1030 *V. HIRSUTULA* Brainerd. Lake Winola, West Mountain.
 1031 *V. FIMBRIATULA* Sm. Common on dry, open hillsides.
 1032 *V. FIMBRIATULA* FORM *PALMATA* Br. Moosic Lake.*
 1033 *V. FIMBRIATULA* FORM *CUCULLATA* Br. Campbell's Ledge.*
 1034 *V. SELKIRKII* Pursh. (Great-Spurred Violet.) Mount Ararat, Griffin reservoir gorge, woods opposite Heckman's in Waverly.
 1035 *V. LANCEOLATA* L. (Lance-Leaved Violet.) Foot of Campbell's Ledge, Dunmore reservoir, Moosic Lake.
 1036 *V. PRIMULIFOLIA* L. (Primrose-Leaved Violet.) Big Birdseye.
 1037 *V. PALLENS* Br. Common in marshy places.
 1038 *V. BLANDA* Willd. Common in wet woods.
 1039 *V. INCOGNITA* Br. Chinchilla toward Griffin reservoir. Not rare. Earlier than *blanda*, on dry banks of streams or woods.
 1040 *V. ROTUNDIFOLIA* Michx. (Early Yellow Violet.) Common in moist woods.
 1041 *V. ODORATA* L. (English or Sweet Violet.) An occasional escape.
 1042 *V. PUBESCENS* Ait. (Downy Yellow Violet.) Frequent.
 1043 *V. SCABRIUSCULA* Schwein. (Smooth Yellow Violet.) Common in Abingtons and in Spring Brook.
 1044 *V. CANADENSIS* L. (Canada Violet.) Common.
 1045 *V. STRIATA* Ait. La Plume, Nicholson, near Lackawanna River at Taylor, near west end of Wilkes-Barre bridge.
 1046 *V. CONSPERSA* Reichenb. (Dog Violet.) Common. A white form of this species is frequently seen.
 1047 *V. ROSTRATA* Pursh. (Long-Spurred Violet.) Common in Lackawanna Valley.
 1048 *V. TRICOLOR* L. (Pansy.) Old gardens and fields.
 1049 *V. ARVENSIS* Murr. (Wild Pansy.) Wyoming.
 1050 *V. RAFINESQUII* Greene. (Wild Pansy.) Along roadside at base of Campbell's Ledge.

NOTE.—A variety of the *V. cucullata*, with blotched petals, colonized on the river bank opposite Plymouth, under observation by Prof. Thurston for ten years, and for a longer period by the writer, is persistent and spreading. It is also found on the mountain opposite Campbell's Ledge and at various places along the river. I have taken the liberty of naming it

- 1051 *V. CUCULLATA*, VAR. *THURSTONI*.*

CACTACEAE (Cactus Family)

OPUNTIA Mill. (Prickly Pear)

- 1052 *O. VULGARIS* Mill. Mosier Knob near Stroudsburg.

THYMELAEACEAE (Mezereum Family)

DIRCA L. (Leatherwood, Moosewood)

- 1053 *D. PALUSTRIS* L. Spring Brook, frequent. Not common elsewhere.

LYTHRACEAE (Loosestrife Family)

DECODON J. F. Gmel. (Swamp Loosestrife)

- 1054 D. VERTICILLATUS Ell. (Water Willow.) Pond near Hawley, Ather-ton's Pond, Crooked Lake.

LYTHRUM L. (Loosestrife)

- 1055 L. ALATUM Pursh. Rocky Glen, C. H. Scharar.
1056 L. SALICARIA L. (Spiked Loosestrife.) Hawley, Dr. Ross. Poyntelle, Lily Lake.

CUPHEA P. Br.

- 1057 C. PETIOLATA Koehne. (Clammy Cuphea.) Eastern foot of Campbell's Ledge.

ONAGRACEAE (Evening Primrose Family)

LUDWIGIA L. (False Loosestrife)

- 1058 L. ALTERNIFOLIA L. (Seedbox.) East foot of Campbell's Ledge.
1059 L. PALUSTRIS Ell. (Water Purslane.) Lake Henry, Kingston pond holes.

EPILOBIUM L. (Willow-Herb)

- 1060 E. ANGUSTIFOLIUM L. (Great Willow-Herb, Fireweed.) Common.
1061 E. DENSUM Raf. Pocono Summit. Local.
1062 E. COLORATUM Muhl. Common.
1063 E. ADENOCALON Haussk. Big Birdseye. Not frequent.

OENOTHERA L. (Evening Primrose)

- 1064 O. BIENNIS L. Common.
1065 O. PUMILA L. Well distributed.
1066 O. FRUTICOSA L. (Sundrops.) Frequent.

GAURA L.

- 1067 G. BIENNIS L. Frequent along the Susquehanna.

CIRCAEA L. (Enchanter's Nightshade)

- 1068 C. LUTETIANA L. Common.
1069 C. ALPINA L. Common about mountain swamps.

HALORAGIDACEAE (Water Milfoil Family)

MYRIOPHYLLUM L. (Water Milfoil)

- 1070 M. SPICATUM L. Kingston pond hole.
1071 M. HUMILE Morong. Long pond in Monroe County, Prof. Porter.
1072 M. TENELLUM Bigel. Lake Poyntelle, H. D. Dunn.

PROSERPINACA L. (Mermaid-Weed)

- 1073 P. PALUSTRIS L. Long pond. Luzerne County, A. A. Heller.

ARALIACEAE (Ginseng Family)

ARALIA L.

- 1074 A. SPINOSA L. (Hercules Club.) Occasional escape. Big colony along Fleetville road, Waverly.

- 1075 *A. RACEMOSA* L. (Spikenard.) Common in rich woodlands.
 1076 *A. HISPIDA* Vent. (Bristly Sarsaparilla.) Common.
 1077 *A. NUDICAULIS* L. (Wild Sarsaparilla.) Common throughout.

PANAX L. (Ginseng)

- 1078 *P. QUINQUEFOLIUM* L. (Ginseng.) Bank of gorge at North Chinchilla, Lake Winola, Ararat, Elk Hills. Rare.
 1079 *P. TRIFOLIUM* L. (Dwarf Ginseng, Groundnut.) Rich Damp woods. Occasional.

UMBELLIFERAE (Parsley Family)

SANICULA L. (Black Snakeroot)

- 1080 *S. MARILANDICA* L. Occasional.
 1081 *S. CANADENSIS* L. Common.

HYDROCOTYLE L. (Water Pennywort)

- 1082 *H. AMERICANA* L. Common near water or marshes.

CHAEROPHYLLUM L.

- 1083 *C. PROCUMBENS* Crantz. Abundant along Susquehanna near Wilkes-Barre.

OSMORHIZA Raf. (Sweet Cicely)

- 1084 *O. CLAYTONI* Clarke. (Hairy Sweet Cicely.) Stroudsburg. Kingston.
 1085 *O. LONGISTYLIS* DC. (Smooth Sweet Cicely.) Not infrequent.
 1086 *O. DIVARICATA* Nutt. Clark's Summit.

CONIUM L. (Poison Hemlock)

- 1087 *C. MACULATUM* L. Occasional in waste places.

AEGOPODIUM L. (Goutweed)

- 1088 *A. PODAGRARIA* L. Waverly. Not an infrequent escape.

CICUTA L. (Water Hemlock)

- 1089 *C. MACULATA* L. (Spotted Cowbane, Musquash Root.) Lake Winola. Frequent.
 1090 *C. BULBIFERA* L. Gravel pond. Common along borders of ponds.

CARUM L. (Caraway)

- 1091 *C. CARVI* L. Frequent.

SIUM L. (Water Parsnip)

- 1092 *S. CICUTAEOFOLIUM* Schrank. Kingston pond holes.
 1093 *S. CICUTAEOFOLIUM*, VAR. *CARSONII* Durand. Pocono Summit, Porter.

CRYPTOTAENIA DC. (Honewort)

- 1094 *C. CANADENSIS* DC. Occasional.

ZIZIA Koch.

- 1095 *Z. AUREA* Koch. Common about Scranton.
 1096 *Z. CORDATA* DC. Laffin.

FOENICULUM Hill. (Fennel)

- 1097 *F. VULGARE* Hill. Near Nay Aug Park.

PIMPINELLA L.

- 1098 *P. SAXIFRAGA* L. Paradise Valley. Not common.

TAENIDIA Drude.

- 1099 *T. INTEGERRIMA* Drude. Common.

CORIANDRUM L. (Coriander)

- 1100 *C. SATIVUM* L. Naomi Pines, *Prof. R. N. Davis*.

THASPIUM Nutt. (Meadow Parsnip)

- 1101 *T. BARBINODE* Nutt. Susquehanna.

PASTINACA L. (Parsnip)

- 1102 *P. SATIVA* L. Common.

LEVISTICUM Hill. (Lovage)

- 1103 *L. OFFICINALE* Koch. Near Elkdale. Waverly.

HERACLEUM L. (Cow Parsnip)

- 1104 *H. LANATUM* Michx. Frequent.

IMPERATORIA L.

- 1105 *I. OSTRUTHIUM* L. (Masterwort.) Near Naomi Pines, *Prof. R. N. Davis*.

CONIOSELINUM Fisch. (Hemlock Parsley)

- 1106 *C. CHINENSE* BSP. Cadosia, O. and W. railroad near river.

ANGELICA L.

- 1107 *A. VILLOSA* BSP. Mountain Park, Birdseye.

- 1108 *A. ATROPURPUREA* L. Mount Pocono.

DAUCUS L. (Carrot)

- 1109 *D. CAROTA* L. Pest to farmers.

CORNACEAE. (Dogwood Family)

CORNUS L. (Cornel, Dogwood)

- 1110 *C. CANADENSIS* L. (Dwarf Cornel, Bunchberry.) Common in damp cold woods.

- 1111 *C. FLORIDA* L. (Flowering Dogwood.) Frequent in woods.

- 1112 *C. CIRCINATA* L'Her. (Round-Leaved Cornel.) Hawley, Elk Mountain.

- 1113 *C. AMOMUM* Mill. (Silky Cornel, Kinnikinnik.) Frequent in low thickets.

- 1114 *C. STOLONIFERA* Michx. (Red-Osier Dogwood.) Common in wet places.

- 1115 *C. PANICULATA* L'Her. Near Dunmore Cemetery, Duryea. Rather frequent.

- 1116 *C. ALTERNIFOLIA* L. Frequent.

NYSSA L. (Pepperidge)

- 1117 *N. SYLVATICA* Marsh. (Black Gum.) Rather frequent in moist woodland.

ERICACEAE (Heath Family)

CHIMAPHILA Pursh. (Pipsissewa)

- 1118 *C. UMBELLATA* Nutt. (Prince's Pine.) Near Dunmore, Lake Scranton gorge. Occasional in dry woods.
1119 *C. MACULATA* Pursh. (Spotted Wintergreen.) Clark's Summit, Lake Winola.

PYROLA L. (Shin Leaf)

- 1120 *P. SECUNDA* L. Hawley.
1121 *P. CHLORANTHA* Sw. Bear Swamp, Susquehanna, *Prof. J. A. Graves*. Lake Winola.
1122 *P. ELLIPTICA* Nutt. Frequent.
1123 *P. AMERICANA* Sweet. Not rare.

MONOTROPA L. (Indian Pipe, Pinesap)

- 1124 *M. UNIFLORA* L. (Indian Pipe, Corpse Plant.) Common.
1125 *M. HYPOPITYS* L. (Pinesap, False Beechdrops.) Clarks Summit, Sugar Loaf, Lynn. Rare.

LEDUM L. (Labrador Tea)

- 1126 *L. GROENLANDICUM* Oeder. Lehigh pond, cold mountain swamps, near southern limit.

RHODODENDRON L.

- 1127 *R. VISCOSUM* Torr. (Clammy Azalea, White Swamp Honeysuckle.) Lehigh pond, Tobyhanna, Tannersville. Not common.
1128 *R. NUDIFLORUM* Torr. (Purple Azalea, Pinxter Flower.) Common.
1129 *R. CANESCENS* G. Don. Dunmore reservoir. Occasional.
1130 *R. CANADENSE* BSP. (Rhodora.) Marshwood, Moosic Lake, near Williams Bridge reservoir. Frequent on the Pocono.
1131 *R. MAXIMUM* L. (Great Laurel.) Frequent along mountain streams.

MENZIESIA Sm.

- 1132 *M. PILOSA* Pers. "Northeastern Pennsylvania, in collection," *Dr. Porter*. Rare.

KALMIA L. (American Laurel)

- 1133 *K. LATIFOLIA* L. (Mountain Laurel.) Common.
1134 *K. ANGUSTIFOLIA* L. (Sheep Laurel.) Abundant.
1135 *K. POLIFOLIA* Wang. (Pale Laurel.) Lake Henry, Lehigh pond, near southern limit.

ANDROMEDA L.

- 1136 *A. GLAUCOPHYLLA* Link. (Bog Rosemary.) Lehigh pond, near its southern limit.

LYONIA Nutt.

- 1137 *L. LIGUSTRINA* DC. (Male Berry.) Characteristic shrub of the region.

CHAMAEDAPHNE Moench. (Leather Leaf, Cassandra)

- 1138 *C. CALYCVLATA* Moench. Common about bogs.

EPIGAEA L. (Trailing Arbutus)

- 1139 *E. REPENS* L. (Mayflower.) Frequent throughout except in the deciduous forests.

GAULTHERIA L. (Aromatic Wintergreen)

- 1140 *G. PROCUMBENS* L. (Teaberry.) Common.

CHIOGENES Salisb. (Creeping Snowberry)

- 1141 *C. HISPIDULA* T. and G. Naomi Pines, Pocono Station. Dunn Farm, Susquehanna County, *H. D. Dunn*.

GAYLUSSACIA HBK. (Huckleberry)

- 1142 *G. FRONDOSA* T. and G. (Dangleberry.) Pocono Knob.

- 1143 *G. BACCATA* C. Koch. (Black Huckleberry.) Common.

VACCINIUM L. (Blueberry, Cranberry)

- 1144 *V. STAMINEUM* L. (Deerberry.) Common.

- 1145 *V. PENNSYLVANICUM* Lam. (Low Sweet Blueberry.) Common.

- 1146 *V. PENNSYLVANICUM*, VAR. *NIGRUM* Wood. (Low Black Blueberry.) Common on mountains.

- 1147 *V. CANADENSE* Kalm. Moosic Lake, Lehigh Pond, Naomi Pines. Near southern limit.

- 1148 *V. VACILLANS* Kalm. (Late Low Blueberry.) Common.

- 1149 *V. CORYMBOSUM* Kalm. (High or Swamp Blueberry.) Frequent in marshes.

- 1150 *V. CORYMBOSUM*, VAR. *PALLIDUM* Gray. Campbell's Ledge.

- 1151 *V. ATROCOCCUM* Heller. Mount Pocono.

- 1152 *V. OXYCOCOS* L. (Small Cranberry.) Tobyhanna, Atherton's pond.

- 1153 *V. MACROCARPON* Ait. (Large or American Cranberry.) Moosic Lake, Atherton's Pond, Lake Henry, Crooked Lake.

PRIMULACEAE (Primrose Family)

LYSIMACHIA L. (Loosestrife)

- 1154 *L. QUADRIFOLIA* L. Common in woods.

- 1155 *L. TERRESTRIS* BSP. Common on pond margins.

- 1156 *L. NUMMULARIA* L. (Moneywort.) Not frequent except in Abingtons.

- 1157 *L. THYRSIFLORA* L. (Tufted Purple Loosetrife.) Wyoming Swamp. Lake Winola.

STEIRONEMA Raf.

- 1158 *S. CILIATUM* Raf. Not infrequent.

TRIENTALIS L. (Chickweed Wintergreen)

- 1159 *T. AMERICANA* Pursh. (Star Flower.) Common.

OLEACEAE (Olive Family)

FRAXINUS L. (Ash)

- 1160 *F. AMERICANA* L. (White Ash.) Frequent.

- 1161 F. PENNSYLVANICA Marsh. (Red Ash.) Hawley, along Paupack,
Dr. L. W. Ross.
- 1162 F. PENNSYLVANICA, VAR. LANCEOLATA Sargt. (Green Ash.) Hawley,
along Paupack, *Dr. Lloyd W. Ross.*
- 1163 F. NIGRA Marsh. (Black Ash.) Factoryville. States pond, near
Moscow, reported by *Wesley Evans.*

LIGUSTRUM L. (Privet)

- 1164 L. VULGARE L. (Privet.) Occasional escape.

GENTIANACEAE (Gentian Family)

SABATIA Adans.

- 1165 S. ANGULARIS Pursh. Above Berwick, *Prof. Heller.*

GENTIANA L. (Gentian)

- 1166 G. CRINITA Froel. (Fringed Gentian.) Opposite Tilbury Knob,
Christopher Wren. Hawley, near canal, Campbell's Ledge.
Spring Brook, *G. L. Newbold.* Green Run, *Judge Archbald.*
Near Fleetville, *C. H. Welles, Esq.*
- 1167 G. QUINQUEFOLIA L. Widely distributed.
- 1168 G. SAPONARIA L. (Soapwort Gentian.) Mountain Inn Road, *Prof.*
Dudley.
- 1169 G. ANDREWSII Griseb. (Closed Gentian.) Frequent in Lackawanna
County.
- 1170 G. LINEARIS Froel. Pocono Summit.

BARTONIA Muhl.

- 1171 B. VIRGINICA BSP. Birdseye. Occasional.

MENYANTHES Hill. (Buckbean)

- 1172 M. TRIFOLIATA L. Bogs and shallow water on mountains. Moosic
Lake, Lehigh pond.

APOCYNACEAE (Dogbane Family)

VINCA L. (Periwinkle)

- 1173 V. MINOR L. (Common Periwinkle, "Myrtle.") A frequent escape
along roads.

APOCYNUM L. (Dogbane, Indian Hemp)

- 1174 A. ANDROSAEMIFOLIUM L. (Spreading Dogbane.) Common.
- 1175 A. CANNABINUM L. (Indian Hemp.) Abundant along Susquehanna,
Lake Scranton.

ASCLEPIADACEAE (Milkweed Family)

ASCLEPIAS L. (Milkweed)

- 1176 A. TUBEROSA L. (Butterfly-Weed, Pleurisy Root.) Spring Brook,
Campbell's Ledge.
- 1177 A. PURPURASCENS L. (Purple Milkweed.) Monroe County, *Prof.*
Porter.

- 1178 A. INCARNATA L. (Swamp Milkweed.) Common.
- 1179 A. SYRIACA L. (Common Milkweed.) Very common.
- 1180 A. AMPLEXICAULIS Sm. Wyoming, Taylor, along railroad.
- 1181 A. PHYTOLACCOIDES Pursh. (Poke Milkweed.) Lake Winola. Frequent.
- 1182 A. VARIEGATA L. Campbell's Ledge. Rare.
- 1183 A. QUADRIFOLIA Jacq. Occasional in dry woods.
- 1184 A. VERTICILLATA L. Campbell's Ledge, Penobscot. Apparently rare.

CONVOLVULACEAE (Convolvulus Family)

IPOMOEA L. (Morning Glory)

- 1185 I. COCCINEA L. Common escape in waste places.
- 1186 I. COCCINEA, VAR. HEDERIFOLIA Gray. Susquehanna, *Prof. Graves*.
- 1187 I. PURPUREA Roth. (Common Morning Glory.) Common escape in waste places.

CONVOLVULUS L. (Bindweed)

- 1188 C. SPITHAMAEUS L. Frequent.
- 1189 C. SEPIUM L. West Linden street, Coxtton.
- 1190 C. ARVENSIS L. Occasional.

CUSCUTA L. (Dodder)

- 1191 C. OBTUSIFLORA HBK. Little Birdseye.
- 1192 C. GRONOVII Willd. Wyoming.
- 1193 C. COMPACTA Juss. (Compact Dodder.) Pocono, *Dr. J. W. Harshberger*.

POLEMONIACEAE (Polemonium Family)

PHLOX L.

- 1194 P. PANICULATA L. Tobyhanna.
- 1195 P. MACULATA L. (Wild Sweet William.) Ransom, near river.
- 1196 P. DIVARICATA L. (Blue Phlox.) Beebe's Flats, Susquehanna, *Prof. Graves*.
- 1197 P. SUBULATA L. (Ground or Moss Pink.) Common on mountain sides.

POLEMONIUM L. (Greek Valerian)

- 1198 P. REPTANS L. Susquehanna, opposite Forty Fort. Rare.

HYDROPHYLLACEAE (Waterleaf Family)

HYDROPHYLLUM L. (Waterleaf)

- 1199 H. VIRGINIANUM L. Frequent.

BORAGINACEAE (Borage Family)

CYNOGLOSSUM L. (Hound's Tongue)

- 1200 C. OFFICINALE L. (Common Hound's Tongue.) Frequent.
- 1201 C. VIRGINIANUM L. (Wild Comfrey.) Gipsy Grove, Dunmore.

LAPPULA Moench. (Stickseed)

- 1202 *L. VIRGINIANA* Greene. (Beggar's Lice.) Common in dry woods.

SYMPHYTUM L. (Comfrey)

- 1203 *S. OFFICINALE* L. (Common Comfrey.) Chinchilla, Pittston Junction.

MYOSOTIS L. (Scorpion Grass, Forget-Me-Not)

- 1204 *M. SCORPIOIDES* L. (True Forget-Me-Not.) Lake Winola.

- 1205 *M. LAXA* Lehm. Kingston pond holes.

- 1206 *M. VIRGINICA* BSP. Top of Campbell's Ledge.

MERTENSIA Roth. (Lungwort)

- 1207 *M. VIRGINICA* Link. Susquehanna, opposite Plymouth.

LITHOSPERMUM L. (Gromwell, Puccoon)

- 1208 *L. ARVENSE* L. (Corn Gromwell.) Dunmore.

- 1209 *L. OFFICINALE* L. (Common Gromwell.) Near Archbald pot hole.

ECHIUM L. (Viper's Bugloss)

- 1210 *E. VULGARE* L. (Blue Weed.) Opposite Laurel Line power plant, Moscow.

VERBENACEAE (Vervain Family)

VERBENA L. (Vervain)

- 1211 *V. URTICAEFOLIA* L. (White Vervain.) Common.

- 1212 *V. ANGUSTIFOLIA* Michx. Cherry Valley, Monroe County.

- 1213 *V. HASTATA* L. (Blue Vervain.) Very common.

- 1214 *V. STRICTA* Vent. (Hoary Vervain.) Coxton.

LABIATAE (Mint Family)

TEUCRIUM L. (Germander)

- 1215 *T. CANADENSE* L. (Wood Sage.) Pittston Junction.

TRICHOSTEMA L. (Blue Curls)

- 1216 *T. DICHOTOMUM* L. (Bastard Pennyroyal.) Waverly, Dunmore.
Occasional.

SCUTELLARIA L. (Skullcap)

- 1217 *S. LATERIFLORA* L. (Mad-Dog Skullcap.) Common.

- 1218 *S. GALERICULATA* L. Frequent.

NEPETA L. (Catmint)

- 1219 *N. CATARIA* L. (Catnip.) Common.

- 1220 *N. HEDERACEA* Trevisan. (Ground Ivy, Gill-Over-the-Ground.)
Common.

PRUNELLA L. (Self-Heal)

- 1221 *P. VULGARIS* L. A very common weed.

PHYSOSTEGIA Benth. (False Dragon Head)

- 1222 *P. VIRGINIANA* Benth. Daleville, along the Susquehanna.

GALEOPSIS L. (Hemp Nettle)

- 1223 G. TETRAHIT L. (Common Hemp Nettle.) Common about Moscow.

LAMIUM L. (Dead Nettle)

- 1224 L. AMPLEXICAULE L. (Henbit.) Taylor woods, Dunmore.
1225 L. ALBUM L. Paradise Valley.
1226 L. MACULATUM L. Paradise Valley.

LEONURUS L. (Motherwort)

- 1227 L. CARDIACA L. (Common Motherwort.) Frequent.

STACHYS L. (Hedge Nettle)

- 1228 S. TENUIFOLIA, VAR. ASPERA Fernald. Wyoming.

SALVIA L. (Sage)

- 1229 S. LANCEAEFOLIA Poir. Field in North Scranton, C. H. Scharar.

MONARDA L. (Horse Mint)

- 1230 M. DIDYMA L. (Oswego Tea, Bee Balm.) Common.
1231 M. CLINOPODIA L. Near Taylor.
1232 M. FISTULOSA L. (Wild Bergamot.) Wyoming.
1233 M. FISTULOSA, VAR. RUBRA Gray. La Plume.

HEDEOMA Pers. (Mock Pennyroyal)

- 1234 H. PULEGIOIDES Pers. (American Pennyroyal.) Common.
1235 H. HISPIDA Pursh. Susquehanna, Prof. J. A. Graves.

MELISSA L. (Balm)

- 1236 M. OFFICINALIS L. (Common Balm.) Near Scranton, Mrs. Buell.

PYCNANTHEMUM Michx. (Mountain Mint)

- 1237 P. FLEXUOSUM BSP. Lake Sheridan.
1238 P. VIRGINIANUM D. and J. Coxton.
1239 P. INCANUM Michx. Campbell's Ledge.

THYMUS L. (Thyme)

- 1240 T. SERPYLLUM L. (Creeping Thyme.) Roadside at Julius Sherman's, Waverly.

CUNILA L. (Dittany)

- 1241 C. ORIGANOIDES Britton. (Common Dittany.) Tilbury Knob, Campbell's Ledge, near its northern limit.

LYCOPUS L. (Water Horehound)

- 1242 L. VIRGINICUS L. (Bugle Weed.) Not uncommon.
1243 L. EUROPAEUS L. Spring Brook.
1244 L. AMERICANUS Muhl. Big Birdseye.

MENTHA L. (Mint)

- 1245 M. ROTUNDIFOLIA Huds. Naomi Pines.
1246 M. SPICATA L. (Spear-mint.) Common.
1247 M. PIPERITA L. (Peppermint.) Common.
1248 M. CARDIACA Gerarde. East of Waverly state road near Fleetville.

- 1249 *M. GENTILIS* L. Dunmore.
 1250 *M. ARVENSIS*, VAR. *CANADENSIS* Briquet. Wyoming.

COLLINSONIA L. (Horse Balm)

- 1251 *C. CANADENSIS* L. (Rich-Weed, Stone-Root.) Common in rich woods.

SOLANACEAE (Nightshade Family)

SOLANUM L. (Nightshade)

- 1252 *S. DULCAMARA* L. (Bittersweet.) Common in Lackawanna Valley.
 1253 *S. NIGRUM* L. (Common Nightshade.) Occasional.
 1254 *S. CAROLINENSE* L. (Horse Nettle.) Occasional along railroads and in waste places.
 1255 *S. ROSTRATUM* Dunal. (Buffalo Bur.) Susquehanna, *Prof. J. A. Graves*.

PHYSALIS L. (Ground Cherry)

- 1256 *P. PUBESCENS* L. Ontario and Western Yard, Scranton.
 1257 *P. HETEROPHYLLA* Nees. (Clammy Ground Cherry.) Luzerne County, *Prof. Porter*.
 1258 *P. HETEROPHYLLA*, VAR. *AMBIGUA* Rydb. Monroe County, *Prof. Porter*.
 1259 *P. SUBGLABRATA* M. and B. Near Virginia Station on Laurel Line.
 1260 *P. VIRGINIANA* Mill. Wyoming, Campbell's Ledge.
 1261 *P. LANCEOLATA* Michx. Bank of Spring Brook Dam, Moosic.

NICANDRA Adans. (Apple of Peru)

- 1262 *N. PHYSALODES* Pers. Near Laurel Line power plant, near Petersburg.

LYCIUM L. (Matrimony Vine)

- 1263 *L. HALIMIFOLIUM* Mill. (Common Matrimony Vine.) Along bank at Taylor Station.

DATURA L. (Jamestown Weed)

- 1264 *D. STRAMONIUM* L. Very common in waste places.
 1265 *D. TATULA* L. (Purple Stramonium.) Not infrequent.

NICOTIANA L. (Tobacco)

- 1266 *N. RUSTICA* L. (Wild Tobacco.) Ferdinand street, North Scranton, *M. J. Kelly*. This species was cultivated by the Indians and the plants found here are probably descended from the tobacco patches of the Indians who inhabited the Capouse Meadows.

SCROPHULARIACEAE (Figwort Family)

VERBASCUM L.

- 1267 *V. THAPSUS* L. (Common Mullein.) Common.
 1268 *V. BLATTARIA* L. (Moth Mullein.) Occasional.
 1269 *V. LYCHNITIS*. (White Mullein.) Paradise Valley.

LINARIA Hill. (Toadflax)

- 1270 *L. VULGARIS* Hill. (Ramsted, Butter and Eggs.) Very common.
1271 *L. CANADENSIS* Dumont. Waymart, Archbald. Occasional.
1272 *L. CYMBALARIA* Mill. (Kenilworth Ivy.) Big colony at corner of Main and Dalton street, Waverly, *H. D. Dunn*.

SCROPHULARIA L. (Figwort)

- 1273 *S. MARILANDICA* L. Nicholson. Infrequent.
1274 *S. LEPORELLA* Bicknell. Common.

PENTSTEMON Ait. (Beard Tongue)

- 1275 *P. HIRSUTUS* Willd. Frequent.
1276 *P. LAEVIGATUS* Ait. Clarks Summit, Campbell's Ledge.
1277 *P. LAEVIGATUS*, VAR. *DIGITALIS* Gray. Stroudsburg, Tannersville.

CHELONE L. (Turtlehead, Snakehead)

- 1278 *C. GLABRA* L. (Balmony.) Frequent.

MIMULUS L. (Monkey Flower)

- 1279 *M. RINGENS* L. Common.

ILYSANTHES Raf. (False Pimpernell)

- 1280 *I. DUBIA* Barnhart. Wyoming, Hawley.

GRATIOLA L. (Hedge Hyssop)

- 1281 *G. VIRGINIANA* L. Common.

VERONICA L. (Speedwell)

- 1282 *V. VIRGINICA* L. (Culver's-Root.) Plymouth Narrows, *C. H. Scharar*.
1283 *V. ANAGALLIS-AQUATICA* L. (Water Speedwell.) Lake Winola. Not uncommon.
1284 *V. AMERICANA* Schwein. (American Brooklime.) Clarks Summit. Frequent.
1285 *V. SCUTELLATA* L. (Marsh Speedwell.) Lake Winola. Rather common.
1286 *V. OFFICINALIS* L. (Common Speedwell.) Common.
1287 *V. SERPYLLIFOLIA* L. (Thyme-Leaved Speedwell.) Common.
1288 *V. PEREGRINA* L. (Neckweed, Purslane Speedwell.) Kingston, Coxton.
1289 *V. ARVENSIS* L. (Corn Speedwell.) Luzerne Glen. Rare.

GERARDIA L.

- 1290 *G. PEDICULARIA* L. Campbell's Ledge.
1291 *G. FLAVA* L. (Downy False Foxglove.) Nay Aug Park, Campbell's Ledge.
1292 *G. VIRGINICA* BSP. (Smooth False Foxglove.) Lake Winola.
1293 *G. TENUIFOLIA* Vahl. (Slender Gerardia.) Campbell's Ledge.

MELAMPYRUM L. (Cow Wheat)

- 1294 *M. LINEARE* Lam. Common.

PEDICULARIS L. (Lousewort)

- 1295 *P. CANADENSIS* L. (Common Lousewort, Wood Betony.) Common.

LENTIBULARIACEAE (Bladderwort Family)

UTRICULARIA L. (Bladderwort)

- 1296 U. CLANDESTINA Nutt. Susquehanna. Identified by *Dr. Porter*.
- 1297 U. VULGARIS L. (Greater Bladderwort.) Common.
- 1298 U. MINOR L. (Smaller Bladderwort.) Lake Henry, *Prof. Dudley*.
- 1299 U. GIBBA L. Michx. Long pond, *Heller*.
- 1300 U. INTERMEDIA Hayne. Lake Henry, *Prof. Dudley*.
- 1301 U. PURPUREA Walt. Reported by *Prof. Dudley*.
- 1302 U. CORNUTA Michx. Starlight.

OROBANCHACEAE (Broom-Rape Family)

EPIFAGUS Nutt. (Beech-Drops, Cancer-Root)

- 1303 E. VIRGINIANA Bart. Common in Abingtons and in Wayne County.

CONOPHOLIS Wallr. (Squaw-Root, Cancer-Root)

- 1304 C. AMERICANA Wallr. Lake Winola. Rare. This station is reported by *Prof. Thurston* and is the only one known within our limits.

OROBANCHE L. (Broom-Rape)

- 1305 O. UNIFLORA L. (One-Flowered Cancer-Root.) Not infrequent.

BIGNONIACEAE (Bignonia Family)

CATALPA Scop. (Catalpa, Indian Bean)

- 1306 C. SPECIOSA Warder. (Catawba Tree, Cigar Tree.) Occasional escape.
- 1307 C. BIGNONIODES Walt. Becoming naturalized.

MARTYNIACEAE (Martynia Family)

MARTYNIA L. (Unicorn Plant)

- 1308 M. LOUISIANA Mill. Susquehanna, *Miss Mary Graves*.

ACANTHACEAE (Acanthus Family)

DIANTHERA L. (Water Willow)

- 1309 D. AMERICANA L. Abundant along shores of Susquehanna.

PHRYMACEAE (Lopseed Family)

PHRYMA L. (Lopseed)

- 1310 P. LEPTOSTACHYA L. Coxton.

PLANTAGINACEAE (Plantain Family)

PLANTAGO L. (Plantain)

- 1311 P. MAJOR L. (Common Plantain.) Very abundant everywhere.
- 1312 P. RUGELII Dcne. Frequent.
- 1313 P. LANCEOLATA L. (Rib Grass, English Plantain.) Common.
- 1314 P. ARISTATA Michx. Providence, Taylor. Occasional.
- 1315 P. VIRGINICA L. Campbell's Ledge.

RUBIACEAE (Madder Family)

GALIUM L. (Bedstraw, Cleavers)

- 1316 G. APARINE L. (Cleavers, Goose Grass.) Wyoming.
- 1317 G. PILOSUM Ait. Campbell's Ledge, Mountain Park.
- 1318 G. CIRCAEZANS Michx. (Wild Liquorice.) Frequent.
- 1319 G. LANCEOLATUM Torr. (Wild Liquorice.) Common.
- 1320 G. BOREALE L. (Northern Bedstraw.) Along Susquehanna below Pittston.
- 1321 G. TRIFIDUM L. Taylor woods, Dunmore.
- 1322 G. TINCTORIUM L. Monroe County.
- 1323 G. ASPRELLUM Michx. (Rough Bedstraw.) Swampy places.
- 1324 G. TRIFLORUM Mich. (Sweet-Scented Bedstraw.) Common.

MITCHELLA L. (Partridge Berry)

- 1325 M. REPENS L. Frequent throughout.

CEPHALANTHUS L. (Buttonbush)

- 1326 C. OCCIDENTALIS L. Common about marshes and ponds.

HOUSTONIA L.

- 1327 H. CAERULEA L. (Bluets.) Common in two valleys.
- 1328 H. LONGIFOLIA Gaertn. Spring Brook.

OLDENLANDIA L.

- 1329 O. UNIFLORA L. Waverly, a half dozen plants.

CAPRIFOLIACEAE (Honeysuckle Family)

DIERVILLA Mill. (Bush Honeysuckle)

- 1330 D. LONICERA Mill. Frequent.

LONICERA L. (Honeysuckle)

- 1331 L. CAERULEA, VAR. VILLOSA T. and G. (Mountain Fly Honeysuckle.) Naomi Pines, *Prof. Porter*. Rare.
- 1332 L. CANADENSIS Marsh. (American Fly Honeysuckle.) Common.
- 1333 L. SEMPERVIRENS L. (Trumpet Honeysuckle.) Susquehanna.
- 1334 L. HIRSUTA Eat. (Hairy Honeysuckle.) Elk Mountain is the only station reported.
- 1335 L. DIOICA L. Frequent.

SYMPHORICARPOS Ludwig. (Snowberry)

- 1336 S. RACEMOSUS, VAR. LAEVIGATUS Fernald. (Snowberry.) Frequent escape from cultivation. Gravel pond.

LINNAEA L. (Twin-Flower)

- 1337 L. BOREALIS, VAR. AMERICANA Rehder. Big Butler pond, Susquehanna, *J. A. Graves*.

TRIOSTEUM L. (Horse Gentian)

- 1338 T. PERFOLIATUM L. (Tinker's Weed, Wild Coffee.) Occasional.

VIBURNUM L. (Arrow-Wood)

- 1339 V. ALNIFOLIUM Marsh. (Hobble-Bush.) Common.
1340 V. OPULUS, VAR. AMERICANUM Ait. (Guelder Rose.) Near Uniondale.
1341 V. ACERIFOLIUM L. (Dockmackie, Arrow-Wood.) Frequent.
1342 V. PUBESCENS Pursh. (Downy Arrow-Wood.) Mountain Park.
1343 V. DENTATUM L. Frequent.
1344 V. CASSINOIDES L. (Withe-Rod, Wild Raisin.) Frequent.
1345 V. NUDUM L. (Larger Withe Rod.) Pocono Plateau, *Dr. J. W. Harshberger*.
1346 V. LENTAGO L. (Sweet Viburnum, Nanny Berry.) Occasional in Lackawanna Valley.
1347 V. PRUNIFOLIUM L. (Black Haw.) More common in Wyoming Valley.

SAMBUCUS L. (Elder)

- 1348 S. CANADENSIS L. (Common Elder.) Very common.
1349 S. RACEMOSA L. (Red-Berried Elder.) Frequent.

DIPSACACEAE (Teasel Family)

DIPSACUS L. (Teasel)

- 1350 D. SYLVESTRIS Huds. (Wild Teasel.) Common in Abingtons; scarce in Lackawanna and Wyoming Valleys.

KNAUTIA L.

- 1351 K. ARVENSIS T. Coulter. Susquehanna, *Prof. Graves*.

CUCURBITACEAE (Gourd Family)

SICYOS L. (One-Seeded Bur Cucumber)

- 1352 S. ANGULATUS L. (Star Cucumber.) Frequent.

ECHINOCYSTIS T. and G. (Wild Balsam-Apple)

- 1353 E. LOBATA T. and G. Common along the Susquehanna.

CAMPANULACEAE (Bluebell Family)

SPECULARIA Fab. (Venus's Looking-Glass)

- 1354 S. PERFOLIATA A. DC. Common.

CAMPANULA L. (Bellflower)

- 1355 C. RAPUNCULOIDES L. Glenburn pond.
1356 C. AMERICANA L. (Tall Bellflower.) Near Plymouth.
1357 C. ROTUNDIFOLIA L. (Harebell.) Campbell's Ledge.
1358 C. APARINOIDES Pursh. (Marsh Bluebell.) Wyoming Swamp.

LOBELIACEAE (Lobelia Family)

LOBELIA L.

- 1359 L. CARDINALIS L. (Cardinal Flower.) Not infrequent.
1360 L. SIPHILITICA L. (Great Lobelia.) Wyoming, Campbell's Ledge.
1361 L. SPICATA Lam. Common.

- 1362 *L. KALMII* L. Pond Brook, Susquehanna, Poyntelle.
 1363 *L. INFLATA* L. (Indian Tobacco.) Common.
 1364 *L. DORTMANNA* L. (Water Lobelia.) Dunn's Pond, Susquehanna,
 Poyntelle, Moosic Lake.

COMPOSITAE (Composite Family)

VERNONIA Schreb. (Ironweed)

- 1365 *V. NOVEBORACENSIS* Willd. Frequent in Wyoming Valley; rare
 above Duryea.

EUPATORIUM L. (Thoroughwort)

- 1366 *E. PURPUREUM* L. (Joe-Pye Weed.) Frequent.
 1367 *E. PURPUREUM*, VAR. *MACULATUM* Darl. Near Factoryville.
 1368 *E. VERBENAEFOLIUM* Michx. Mount Pocono.
 1369 *E. SESSILIFOLIUM* L. (Upland Boneset.) Campbell's Ledge.
 1370 *E. PERFOLIATUM* L. (Thoroughwort, Boneset.) Very common.
 1371 *E. URTICAEFOLIUM* Reichard. (White Snakeroot.) Frequent.

LIATRIS Schreb. (Button Snakeroot, Blazing Star)

- 1372 *L. SQUARROSA* Willd. Penobscot Knob.

SOLIDAGO L. (Golden Rod)

- 1373 *S. SQUARROSA* Muhl. Hanover.
 1374 *S. CAESIA* L. Frequent.
 1375 *S. CAESIA*, VAR. *AXILLARIS* Gray. Virginia Station on Laurel Line.
 1376 *S. LATIFOLIA* L. Solomon's Gap, Birdseye.
 1377 *S. BICOLOR* L. Common.
 1378 *S. HISPIDA* Muhl. Birdseye.
 1379 *S. PUBERULA* Nutt. Wyoming.
 1380 *S. ULIGINOSA* Nutt. Gravel pond.
 1381 *S. SPECIOSA* Nutt. Tunkhannock.
 1382 *S. PATULA* Muhl. Susquehanna, *Prof. Graves*.
 1383 *S. ARGUTA* Ait. Frequent on mountains.
 1384 *S. JUNCEA* Ait. Wyoming.
 1385 *S. NEGLECTA* T. and G. Susquehanna, *Prof. Graves*.
 1386 *S. ODORA* Ait. (Sweet Golden-Rod.) Big Birdseye.
 1387 *S. ULMIFOLIA* Muhl. Campbell's Ledge.
 1388 *S. RUGOSA* Mill. Common.
 1389 *S. NEMORALIS* Ait. Frequent.
 1390 *S. CANADENSIS* L. Hunlock's Creek. Frequent.
 1391 *S. SEROTINA* Ait. Common.
 1392 *S. RIGIDA* L. Campbell's Ledge. Not reported heretofore.
 1393 *S. GRAMINIFOLIA* Salisb. Frequent.

APLOPAPPUS Cass.

- 1394 *A. SPINULOSUS* DC. Near Nay Aug Park.

BELLIS L. (Daisy)

- 1395 *B. PERENNIS* L. (True or English Daisy.) Nay Aug Park, *Supt.*
T. H. Phillips.*

ASTER L. (Frost Flower, Aster)

- 1396 A. DIVARICATUS L. Elmhurst. Common.
1397 A. MACROPHYLLUS L. Mountain Park.
1398 A. NOVAE-ANGLIAE L. Abundant in Abingtons.
1399 A. PATENS Ait. Penobscot Knob.
1400 A. PATENS, VAR. PHLOGIFOLIUS Nees. Campbell's Ledge.
1401 A. UNDULATUS L. Frequent in mountain roads.
1402 A. CORDIFOLIUS L. Common.
1403 A. CORDIFOLIUS, VAR. POLYCEPHALUS Porter. Wilkes-Barre Mountain, *Thurston*.
1404 A. LOWRIEANUS Porter. Mountain Park.
1405 A. LOWRIEANUS, VAR. LANCEOLATUS Porter. Susquehanna, *Prof. J. A. Graves*.
1406 A. LOWRIEANUS, VAR. INCISUS Porter. Susquehanna, *Prof. J. A. Graves*.
1407 A. LAEVIS L. Mountain Park.
1408 A. CONCINNUS Willd. Tunkhannock.
1409 A. ERICOIDES L. Campbell's Ledge.
1410 A. VIMINEUS Lam. Elmhurst.
1411 A. LATERIFLORUS Britton. Birdseye.
1412 A. PANICULATUS Lam. Birdseye.
1413 A. JUNCEUS Ait. Near inlet to Lake Scranton, *Prof. Davis*.
1414 A. PRENANTHOIDES Muhl. Yatesville.
1415 A. PUNICEUS L. East of Wilkes-Barre. Not common.
1416 A. UMBELLATUS Mill. Birdseye.
1417 A. INFIRMUS Michx. Mountain Park.
1418 A. LINARIIFOLIUS L. Penobscot Knob.
1419 A. ACUMINATUS Michx. Birdseye. Frequent.

ERIGERON L. (Fleabane)

- 1420 E. PULCHELLUS Michx. (Robin's Plantain.) Common.
1421 E. PHILADELPHICUS L. (Pink Fleabane.) Occasional.
1422 E. ANNUUS Pers. (Daisy Fleabane, Sweet Scabious.) Common.
1423 E. RAMOSUS BSP. (Daisy Fleabane.) Frequent.

SERICOCARPUS Nees. (White-Topped Aster)

- 1424 S. ASTEROIDES BSP. Common.

ANTENNARIA Gaertn. (Everlasting)

- 1425 A. CANADENSIS Greene. Pocono Plateau.
1426 A. PLANTAGINIFOLIA Richards. Common.
1427 A. NEODIOICA Greene. Port Blanchard. Frequent.
1428 A. NEGLECTA Greene. Port Blanchard. Occasional.

ANAPHALIS DC. (Everlasting)

- 1429 A. MARGARITACEA B. and H. (Pearly Everlasting.) Common.

GNAPHALIUM L. (Cudweed)

- 1430 G. POLYCEPHALUM Michx. (Common Everlasting.) Abundant.
1431 G. DECURRENS Ives. (Everlasting.) Hawley.

- 1432 *G. ULIGINOSUM* L. (Low Cudweed.) Common.
 1433 *G. PURPUREUM* L. (Purplish Cudweed.) Mountain field west of Wyoming.

INULA L. (Elecampane)

- 1434 *I. HELENIUM* L. (Elecampane.) Frequent in Abingtons.

POLYMNIA L. (Leafcup)

- 1435 *P. CANADENSIS* L. Meshoppen.

SILPHIUM L. (Rosin-Weed)

- 1436 *S. PERFOLIATUM* L. (Cup Plant.) Uniondale.

IVA L. (Marsh Elder, Highwater-Shrub)

- 1437 *I. XANTHIFOLIA* Nutt. North Scranton, *C. H. Scharar*.

AMBROSIA L. (Ragweed)

- 1438 *A. TRIFIDA* L. (Great Ragweed.) Common along Susquehanna and lower Lackawanna.

- 1439 *A. TRIFIDA*, VAR. *INTEGRIFOLIA* T. and G. West Pittston, *Thurston*.

- 1440 *A. ARTEMISIIFOLIA* L. (Roman Wormwood.) Common.

XANTHIUM L. (Cocklebur, Clotbur)

- 1441 *X. CANADENSE* Mill. Common.

- 1442 *X. ECHINATUM* Murr. Susquehanna.

HELIOPSIS Pers. (Ox-Eye)

- 1443 *H. HELIANTHOIDES* Sweet. Coxton.

- 1444 *H. SCABRA* Dunal. Elk Mountains. Rare eastward.

RUDBECKIA L. (Cone-Flower)

- 1445 *R. TRILOBA* L. Wyoming along river bank.

- 1446 *R. HIRTA* L. (Yellow Daisy, Black-Eyed Susan.) Common.

- 1447 *R. FULGIDA* Ait. Wilkes-Barre field, *C. H. Scharar*.

- 1448 *R. LACINIATA* L. Frequent.

HELIANTHUS L. (Sunflower)

- 1449 *H. ANNUUS* L. (Common Sunflower.) In waste places.

- 1450 *H. MOLLIS* Lam. Alford, Susquehanna County.

- 1451 *H. GIGANTEUS* L. Coxton, Wyoming.

- 1452 *H. MICROCEPHALUS* T. and G. Penobscot.

- 1453 *H. DIVARICATUS* L. Common on mountains.

- 1454 *H. STRUMOSUS* L. Susquehanna.

- 1455 *H. TRACHELIIFOLIUS* Mill. Elmhurst.

- 1456 *H. DECAPETALUS* L. Campbell's Ledge.

- 1457 *H. TUBEROSUS* L. (Jerusalem Artichoke.) Common along Susquehanna River.

COREOPSIS L. (Tickseed)

- 1458 *C. CARDAMINEFOLIA* T. and G. Near Nay Aug Park. An occasional escape.*

BIDENS L. (Bur Marigold)

- 1459 *B. DISCOIDEA* Britton. Lake Sheridan.

- 1460 *B. FRONDOSA* L. (Beggar-Ticks.)

- 1461 *B. COMOSA* Wiegand. Eastern base of Campbell's Ledge.
 1462 *B. CONNATA* Muhl. (Swamp Beggar-Ticks.) Lake Winola.
 1463 *B. CERNUA* L. (Stick-Tight.) Elmhurst.
 1464 *B. LAEVIS* BSP. Coxtton. Common.
 1465 *B. BIPINNATA* L. (Spanish Needles.)

GALINSOGA R. and P.

- 1466 *G. PARVIFLORA* Cav. Common.
 1467 *G. PARVIFLORA*, VAR. *HISPIDA* DC. Common.

HELENIUM L. (Sneezeweed)

- 1468 *H. NUDIFLORUM* Nutt. Factoryville.
 1469 *H. AUTUMNALE* L. Occasional along the Susquehanna.

ACHILLEA L. (Yarrow)

- 1470 *A. MILLEFOLIUM* L. (Common Yarrow or Milfoil.) Very common.

ANTHEMIS L. (Chamomile)

- 1471 *A. COTULA* L. (Mayweed.) Very common.
 1472 *A. ARVENSIS* L. (Corn Chamomile.) Wyoming. Occasional.
 1473 *A. NOBILIS* L. (Garden Chamomile.) An occasional escape.

MATRICARIA L. (Wild Chamomile)

- 1474 *M. SUAVEOLENS* Buchenau. (Pineapple-Weed.) Dunmore, Waverly.

CHRYSANTHEMUM L. (Ox-Eye Daisy)

- 1475 *C. LEUCANTHEMUM*, VAR. *PINNATIFIDUM* L. and L. (Ox-Eye or White Daisy.) A common weed pest.
 1476 *C. PARTHENIUM* Bernh. (Feverfew.) Dunmore.
 1477 *C. BALSAMITA*, VAR. *TANACETOIDES* Boiss. (Costmary.) Winola road from Factoryville.

TANACETUM L.

- 1478 *T. VULGARE* L. (Common Tansy.) Frequent.
 1479 *T. VULGARE*, VAR. *CRISPUM* DC. Dunmore, Throop road, Waverly. Occasional.

ARTEMISIA L. (Wormwood)

- 1480 *A. VULGARIS* L. (Common Mugwort.) Near Nay Aug Park.
 1481 *A. BIENNIS* Willd. Lackawanna Railroad yards, Scranton. Providence, *C. H. Scharar*.
 1482 *A. ANNUA* L. Waverly.
 1483 *A. ABROTANUM* L. (Southernwood.) Nicholson. Occasional escape.*
 1484 *A. PROCERA* Willd. Nicholson. An occasional escape.*

TUSSILAGO L. (Coltsfoot)

- 1485 *T. FARFARA* L. Near Alford, Ashley planes. Rare.

ERECHTITES Raf. (Fireweed)

- 1486 *E. HIERACIFOLIA* Raf. Very common.

CACALIA L. (Indian Plantain)

- 1487 *C. SUAVEOLENS* L. Mocanaqua. Not common.
 1488 *C. ATRIPLICIFOLIA* L. (Pale Indian Plantain.) Hunlock's Creek. Rare.

SENECIO L. (Groundsel, Ragwort, Squaw-Weed)

- 1489 *S. VULGARIS* L. Waverly. Becoming a pest.
1490 *S. OBOVATUS* Muhl. Spring Brook.
1491 *S. AUREUS* L. (Golden Ragwort.) Common.
1492 *S. BALSAMITAE* Muhl. Pocono Mountain, *Prof. Porter*.

ARCTIUM L. (Burdock)

- 1493 *A. MINUS* Bernh. (Common Burdock.) Very common.

ECHINOPS L. (Globe Thistle)

- 1494 *E. SPHAEROCEPHALUS* L. M. B. Fuller's farm, Dalton. Factoryville, *George Griswold*.

CARDUUS L. (Plumeless Thistle)

- 1495 *C. CRISPUS* L. Hebrew Cemetery, Dunmore, *Prof. R. N. Davis*.

CIRSIUM Hill. (Common or Plumed Thistle)

- 1496 *C. LANCEOLATUM* Hill. (Common or Bull Thistle.) Very common.
1497 *C. DISCOLOR* Spreng. Frequent near Pittston.
1498 *C. MUTICUM* Michx. Monroe County.
1499 *C. PUMILUM* Spreng. (Pasture or Bull Thistle.) Common.
1500 *C. ARVENSE* Scop. (Canada Thistle.) Very common.

CENTAUREA L. (Star Thistle)

- 1501 *C. CYANUS* L. (Bachelor's Button.) A frequent escape.

CICHORIUM L. (Chicory)

- 1502 *C. INTYBUS* L. (Common Chicory.) Waverly, Factoryville. Occasional elsewhere.

KRIGIA Schreb. (Dwarf Dandelion)

- 1503 *K. VIRGINICA* Willd. Taylor woods, Dunmore, Elmhurst Boulevard. Frequent.
1504 *K. AMPLEXICAULIS* Nutt. (Cynthia.) Starlight, Stroudsburg, Campbell's Ledge. Not common.

LEONTODON L. (Hawkbitt)

- 1505 *L. AUTUMNALIS* L. (Fall Dandelion, Arnica.) Linen farm, Waverly. Infrequent.

PICRIS L.

- 1506 *P. HIERACIOIDES* L. (Hawkweed Picris.) Stroudsburg, *Prof. Porter*.
1507 *P. ECHIOIDES* L. (Ox-Tongue.) North Blakely street, Dunmore.

TRAGOPOGON L. (Goat's Beard)

- 1508 *T. PORRIFOLIUS* L. (Salsify, Oyster Plant.) An occasional escape.
1509 *T. PRATENSIS* L. (Goat's Beard.) Has become quite widely distributed.

TARAXACUM Ludwig. (Dandelion)

- 1510 *T. OFFICINALE* Weber. (Common Dandelion.) Common everywhere.
1511 *T. ERYTHROSPERMUM* Andr. (Red-Seeded Dandelion.) Monroe County, *Prof. Porter*.

SONCHUS L. (Sow Thistle)

- 1512 S. ARVENSIS L. (Field Sow Thistle.) Common.
1513 S. OLERACEUS L. (Common Sow Thistle.) Frequent.
1514 S. ASPER Hill. (Spiny-Leaved Sow Thistle.) Occasional.

LACTUCA L. (Lettuce)

- 1515 L. SCARIOLO L. (Prickly Lettuce.) Common throughout.
1516 L. CANADENSIS L. (Wild Lettuce, Horse-Weed.) Common.
1517 L. CANADENSIS, VAR. MONTANA Britton. Monroe Country, *Prof. Porter*.
1518 L. INTEGRIFOLIA Bigel. Elmhurst.
1519 L. HIRSUTA Muhl.
1520 L. VILLOSA Jacq. Mocanaqua.
1521 L. SPICATA Hitchc. Farm of C. S. Woolworth, near Lily Lake.

PRENANTHES L. (Rattlesnake-Root)

- 1522 P. RACEMOSA Michx. Gipsy Grove, Dunmore.
1523 P. ALBA L. (White Lettuce, Rattlesnake-Root.) Gipsy Grove, Dunmore.
1524 P. SERPENTARIA Pursh. (Lion's Foot.) Gipsy Grove, Dunmore.
1525 P. TRIFOLIOLATA Fernald. (Gall-of-the-Earth.) Gipsy Grove, Dunmore.
1526 P. ALTISSIMA L. Gipsy Grove, Dunmore.

HIERACIUM L. (Hawkweed)

- 1527 H. PILOSELLA L. (Mouse-Ear.) Near Lily Lake. Near Elk Mountain, *J. A. Graves*.
1528 H. AURANTIACUM L. (Orange Hawkweed, Devil's Paint-Brush.) This has become a great pest within recent years.
1529 H. PRATENSE Tausch. (King Devil.) Factoryville, Scranton Golf Grounds.
1530 H. VENOSUM L. (Rattlesnake-Weed.) Common.
1531 H. PANICULATUM L. Frequent.
1532 H. MARIANUM Willd. Penobscot, Wilkes-Barre Mountain.
1533 H. SCABRUM Michx. Frequent.
1534 H. CANADENSE Michx. Pocono Summit. Occasional elsewhere.



Index

	Page		Page
Abies	14	Andromeda	56
Abutilon	51	Andropogon	16
Acacia	46	Anemone	36
Acalypha	48	Anemonella	36
ACANTHACEAE	64	Angelica	55
Acanthus Family	64	Antennaria	68
Acer	49	Anthemis	70
ACERACEAE	49	Anthoxanthum	17
Achillea	70	Anychia	33
Acorus	24	Apios	47
Actaea	37	Aplectrum	28
Adam-and-Eve	28	Aplopappus	67
Adder's Tongue	13, 28	APOCYNACEAE	58
Adiantum	11	Apocynum	58
Adlumia	38	Apple	42
Aegopodium	54	Apple-of-Peru	62
Aesculus	50	AQUIFOLIACEAE	49
Agrimonia	44	Aquilegia	37
Agrimony	44	Arabis	40
Agropyron	20	Aralia	53
Agrostemma	34	ARACEAE	23
Agrostis	18	ARALIACEAE	53
Ailanthus	48	Arbor Vitae	14
AIZOACEAE	34	Arceuthobium	31
Alder	30	Arctium	71
Alettris	26	Arenaria	34
Alfalfa	46	Arisaema	23
Alisma	16	Aristida	17
ALISMACEAE	16	ARISTOLOCHIACEAE	32
Allium	25	Arnica	71
Allspice	38	Aromatic Wintergreen	57
Alnus	30	Arrenatherum	18
Alopecurus	18	Arrow Arum	24
Alsike Clover	46	Arrow-Grass Family	15
Althaea	51	Arrow-Head	16
Alum Root	41	Arrow-Leaved Tear-Thumb	32
Alyssum	38	Arrow-Wood	66
Amaranth	33	Artemisia	70
Amaranthus	33	Arum	23
AMARYLLIDACEAE	27	Arum Family	23
Amaryllis Family	27	Aruncus	42
Ambrosia	69	Asarum	32
Amelanchier	42	ASCLEPIADACEAE	58
American Bladder-Nut	49	Asclepias	58
American Brooklime	63	Ash	57, 58, 42
American Crab Apple	42	Asparagus	26
American Cranberry	57	Aspen	29
American Elm	31	Aspidium	12
American Fly Honeysuckle	65	Asplenium	11
American Frog's Bit	16	Aster	68
American Laurel	56	Astragalus	46
American Pennyroyal	61	Atriplex	33
American White Hellebore	25	Avena	18
Amianthium	25	Avens	44
Amphicarpa	47	Awned Wheat Grass	20
ANACARDIACEAE	49		
Anaphalis	68		

	Page
Bachelor's Button	71
Balm	61
Balm of Gilead	29
Balmony	63
Balsam	50
Balsam Apple	66
Balsam Fir	14
BALSAMINACEAE	50
Baneberry	37
Baptisia	45
Barbarea	39
Barberry	37
Barberry Family	37
Barley	20
Barnyard Grass	17
Bartonia	58
Basswood	50
Bastard Toad Flax.....	31
Bastard Pennyroyal	60
Bayberry	29
Bay-Leaved Willow	28
Bayonet Rush	25
Beaked Hazelnut	30
Beak Rush	21
Bean	47
Beard Grass	16
Beard Tongue	63
Bedstraw	65
Bee Balm	61
Beechdrops	56, 64
Beech Family	30
Beech Fern	11
Beggar Ticks	69
Bellflower	66
Bellis	67
Bellwort	25
Benjamin Bush	38
Bent Grass	18
Benzoïn	38
BERBERIDACEAE	37
Berberis	37
Bergamot	61
Berteroa	38
Betony	63
Betula	30
BETULACEAE	30
Bidens	69
BIGNONIACEAE	64
Bignonia Family	64
Bindweed	32, 59
Birch	30
Birch Family	30
Bird Cherry	45
Bird-Foot Violet	51
Birthroot	26
Birthwort Family	32
Bishop's Cap	41
Bitter Cress	39
Bitter Dock	32
Bitternut	30
Bitter-Sweet	49, 62

	Page
Black Ash	58
Blackberry	44
Black Bindweed	32
Black Birch	30
Black Blueberry	57
Black Cherry	45
Black Cohosh	37
Black Currant	41
Black-Eyed Susan	69
Black Gum	56
Black Haw	66
Black Medick	46
Black Oak	30
Black Raspberry	44
Black Snakeroot	37, 54
Black Sugar Maple.....	50
Black Walnut	29
Black Willow	28
Bladder Campion	35
Bladder Fern	12
Bladder Nut	49
Bladder Nut Family.....	49
Bladderwort	64
Bladderwort Family	64
Blazing Star	25, 67
Bleeding Heart	38
Bloodroot	38
Blue Beech	30
Bluebell	66
Bluebell Family	66
Blueberry	57
Blue Cohosh	37
Blue Curls	60
Blue-Eyed Grass	27
Blue Flag	27
Blue-Grass	19
Blue-Joint Grass	18
Blue Phlox	59
Bluets	65
Blue Vervain	60
Blue Violet	51
Blue Weed	60
Boehmeria	31
Bog Rosemary	56
Bog Rush	25
Boneset	67
Borage Family	59
BORAGINACEAE	59
Botrychium	13
Bottle-Brush Grass	20
Box Elder	50
Brachelytrum	18
Bracken	11
Brake	11
Bramble	44
Brasenia	35
Brassica	39
Bristly Blackberry	44
Bristly Crowfoot	36
Bristly Foxtail Grass.....	17
Bristly Sarsaparilla	54

	Page
Broad Beech Fern.....	11
Broad-Fruited Bur-Reed ...	15
Broad-Leaved Willow	29
Brome Grass	19
Bromus	19
Brooklime	63
Broom-Rape	64
Broom-Rape Family	64
Broussonetia	31
Buckbean	58
Buckthorn Family	50
Buckwheat	32
Buckwheat Family	32
Buffalo Bur	62
Buffalo Currant	41
Bugbane	37
Bugle-Weed	61
Bulbous Buttercup	36
Bullace Plum	45
Bull Thistle	71
Bulrush	21, 25
Bunchberry	55
Bur Cucumber	66
Burdock	71
Bur Marigold	69
Burning Bush	49
Bur-Reed Family	15
Bush Clover	46
Bush Honeysuckle	65
Butter-and-Eggs	63
Buttercup	35, 36
Butternut	29
Buttonbush	65
Button Snakeroot	67
Buttonwood	41
Cabbage	39
Cacalia	70
CACTACEAE	52
Cactus Family	52
Calamagrostis	18
Calla	24
CALLITRICHACEAE	48
Callitriche	48
Calopogon	28
Caltha	36
Camelina	39
Campanula	66
CAMPANULACEAE	66
Campion	34, 35
Camptosorus	11
Canada Blue Grass.....	19
Canada Thistle	71
Canada Violet	52
Canadian Burnet	44
Canary Grass	17
Cancer Root	64
Cannabis	31
Canoe Birch	30
Caper Family	40
Caper Spurge	48

	Page
CAPPARIDACEAE	40
CAPRIFOLIACEAE	65
Capsella	39
Caraway	54
Cardamine	39
Cardinal Flower	66
Carduus	71
Carex	21
Carnation	35
Carolina Poplar	29
Carpet Weed	34
Carpinus	30
Carrot	55
Carum	54
Carya	29
CARYOPHYLLACEAE	34
Cashew Family	49
Cassandra	57
Cassia	45
Castalia	35
Castanea	30
Castor-Oil Plant	48
Catalpa	64
Catawba Tree	64
Cat-Brier	27
Catchfly	34, 35
Catmint	60
Catnip	60
Cat-Tail	15
Cat-Tail Family	15
Caulophyllum	37
Ceanothus	50
Celandine	38
CELASTRACEAE	49
Celastrus	49
Celtis	31
Cenchrus	17
Centaurea	71
Cephalanthus	65
Cerastium	34
CERATOPHYLLACEAE	35
Ceratophyllum	35
Chaerophyllum	54
Chain Fern	11
Chamaedaphne	54
Chamaelirium	25
Chamomile	70
Cheat	19
Cheeses	51
Chelidonium	38
Chelone	63
CHENOPODIACEAE	33
Chenopodium	33
Cherry	45, 62
Chess	19
Chestnut	30, 50
Chestnut Oak	30
Chicken Grape	50
Chick Pea	47
Chickweed Wintergreen....	57

	Page
Chickweed	33, 34
Chicory	71
Chimaphilla	56
Chiogenes	57
Chokeberry	42
Choke Cherry	45
Christmas Fern	12
Christmas Flower	36
Chrysanthemum	70
Chrysosplenium	41
Cichorium	71
Cicuta	54
Cigar Tree	64
Cimicifuga	37
Cinna	18
Cinnamon Fern	13
Cinnamon Rose	45
Cinquefoil	43, 44
Circaea	53
Cirsium	71
CISTACEAE	51
Clammy Azalea	56
Clammy Cuphea	53
Clammy Ground Cherry....	62
Claytonia	35
Clearweed	31
Cleavers	65
Clematis	36
Cliff Brake	11
Climbing Bitter-Sweet	49
Climbing False Buckwheat.	32
Climbing Fern	12
Climbing Fumitory	38
Clintonia	26
Closed Gentian	58
Clotbur	69
Clover	45, 46
Club Moss	13
Club Rush	21
Cockle	34
Cocklebur	69
Cockspur Thorn	42
Cohosh	37
Colic Root	26
Collinsonia	62
Coltsfoot	70
Columbine	37
Comandra	31
Comfrey	59, 60
Commelina	24
COMMELINACEAE	24
Compact Dodder	59
COMPOSITAE	67
Composite Family	67
Coneflower	69
Conioselinum	55
Conium	54
Conopholis	64
Conringia	39
Convallaria	26
CONVOLVULACEAE	59

	Page
Convolvulus	59
Convolvulus Family	59
Coptis	36
Corallorhiza	28
Coral Root	28
Coreopsis	69
Coriander	55
Coriandrum	55
CORNACEAE	55
Corn Chamomile	70
Corn Cockle	34
Corn Gromwell	60
Corn Speedwell	63
Corn Spurrey	34
Cornel	55
Cornus	55
Corpse Plant	56
Corydalis	38
Corylus	30
Costmary	70
Cotton Grass	21
Couch Grass	20
Cow Herb	35
Cow Lily	35
Cow Parsnip	55
Cow Wheat	63
Crab Apple	42
Crab Grass	16
Crack Willow	29
Cranberry	57
Cranesbill	47
CRASSULACEAE	40
Crataegus	42
Cream-Colored Avens	44
Creeping Buttercup	36
Creeping Snowberry	57
Creeping Thyme	61
Cress	38, 39, 40
Crimson Clover	45
Crotalaria	45
Crowfoot Family	35
Crowfoot	36
CRUCIFERAE	38
Cryptogramma	11
Cryptotaenia	54
Cuckoo Flower	40
Cucumber Root	26
Cucumber Tree	37
CUCURBITACEAE	66
Cudweed	68, 69
Culver's Root	63
Cunila	61
Cuphea	53
Cup Plant	69
Curly Grass Family.....	12
Currant	41
Cursed Crowfoot	36
Cuscuta	59
Cut-Grass	17
Cynoglossum	59

	Page		Page
Cynthia	71	Duck's Meat	24
CYPERACEAE	20	Duckweed	24
Cyperus	20	Duckweed Family	24
Cypress Spurge	48	Dulchium	20
Cypripedium	27	Dutchman's Breeches	38
Cystopteris	12	Dwarf Cornel	55
Dactylis	19	Dwarf Dandelion	71
Daisy	67, 69, 70	Dwarf Ginseng	54
Daisy Fleabane	68	Dwarf Gray Willow	29
Dalibarda	44	Dwarf Mistletoe	31
Dame's Violet	39	Dwarf Raspberry	44
Dandelion	71	Dwarf Sumach	49
Dangleberry	57	Early Crowfoot	36
Danthonia	18	Early Meadow Rue	36
Darnel	20	Early Saxifrage	40
Datura	62	Early Yellow Violet	52
Daucus	55	Echinochloa	17
Day Flower	24	Echinocystis	66
Day Lily	25	Echinops	71
Dead Nettle	61	Echium	60
Decodon	53	Eel Grass	16
Deerberry	57	Eglantine	45
Delphinium	37	Elder	66, 69
Dentaria	39	Elecampane	69
Deptford Pink	35	Eleusine	19
Deschampsia	18	Elm	31
Desmodium	46	Elodea	16
Devil's Bit	25	Flymus	20
Devil's Paint Brush	72	Enchanter's Nightshade	53
Dewberry	44	English Daisy	67
Dianthera	64	English Hawthorn	42
Dianthus	35	English Plantain	64
Dicentra	38	English Violet	52
Dicksonia	12	Epifagus	64
Diervilla	65	Epigaea	57
Digitaria	16	Epilobium	53
DIOSCOREACEAE	27	Epipactis	28
Dioscorea	27	EQUISETACEAE	13
DIPSACACEAE	66	Equisetum	13
Dipsacus	66	Eragrostis	19
Dirca	52	Erechtites	70
Ditch Stonecrop	40	ERICACEAE	56
Dittany	61	Erigeron	68
Dock	32, 35	ERIOCAULACEAE	24
Dockmackie	66	Eriocaulon	24
Dodder	59	Eriophorum	21
Dogbane	58	Erodium	47
Dogbane Family	58	Erysimum	39
Dog Rose	45	Erythronium	26
Dog's Tooth Violet	26	Eupatorium	67
Dog Violet	52	Euphorbia	48
Dogwood	55	EUPHORBIACEAE	48
Dogwood Family	55	European Millet	16
Downy Arrow-Wood	66	European Spindle Tree	49
Downy False Foxglove	63	Evening Primrose	53
Downy Yellow Violet	52	Evening Primrose Family	53
Draba	38	Everlasting	68
Dragon Head	60	Everlasting Pea	47
Drosera	40	Evonymus	49
DROSERACEAE	40		

	Page
FAGACEAE	30
Fagopyrum	32
Fagus	30
Fall Dandelion	71
False Beechdrops	56
False Buckwheat	32
False Dragon Head.....	60
False Flax	39
False Foxglove	63
False Hellebore	25
False Indigo	45
False Loosestrife	53
False Mermaid	49
False Mermaid Family.....	49
False Miterwort	41
False Nettle	31
False Pimpernel	63
False Solomon's Seal.....	26
False Spikenard	26
Fennel	55
Fennel Flower	37
Fern Family	11
Fescue-Grass	19
Festuca	19
Fever Bush	38
Feverfew	70
Field Mouse-Ear Chickweed	34
Field Sow Thistle	72
Figwort	63
Figwort Family	62
Filipendula	44
Finger Grass	16
Fir	14
Fire Cherry	45
Fireweed	53, 70
Five Finger	43
Flax	47
Flax Family	47
Fleabane	68
Fleur-de-Lis	27
Floerkea	49
Flowering Dogwood	55
Flowering Ferns	13
Flowering Spurge	48
Fly Poison	25
Foeniculum	55
Forget-Me-Not	60
Forked Chickweed	33
Four O'Clock Family	33
Fowl Meadow Grass.....	19
Fox Grape	50
Foxtail Grass	17, 18
Fragaria	43
Frank's Eragrostis	19
Fraxinus	57
Fringed Gentian	58
Fringed Orchis	27
Fringed Polygala	48
Frog's Bit	16
Frog's Bit Family.....	16
Frost Flower	68

	Page
Frost Grape	50
Frostweed	51
FUMARIACEAE	38
Fumitory Family	38
Galeopsis	61
Galingale	20
Galinsoga	70
Galium	65
Gall-of-the-Earth	72
Garden Chamomile	70
Garden Cress	39
Garlic	25
Gaultheria	57
Gaura	53
Gaylussacia	57
Gentian	58
Gentiana	58
GENTIANACEAE	58
Gentian Family	58
GERANIACEAE	47
Geranium	47
Geranium Family	47
Gerardia	63
Germander	60
German Millet	17
Geum	44
Gillenia	42
Gill-Over-the-Ground	60
Ginger	32
Ginseng Family	53
Ginseng	54
Glaucous Willow	29
Gleditsia	45
Globe Flower	36
Globe Thistle	71
Glyceria	19
Gnaphalium	68
Goat's Beard	71
Goat's Rue	46
Golden Club	24
Golden Ragwort	71
Golden Rod	67
Golden Saxifrage	41
Golden Seal	37
Gold Thread	36
Good King Henry.....	33
Gooseberry	41
Goosefoot	33
Goosefoot Family	33
Goose Grass	19, 65
Gourd Family	66
Goutweed	54
GRAMINEA	16
Grape	50
Grass Family	16
Gratiola	63
Gray Willow	29
Great Bulrush	21
Great Chickweed	34

	Page
Greater Bladderwort	64
Great Laurel	56
Great Lobelia	66
Great Ragweed	69
Great Saint John's Wort...	51
Great Solomon's Seal.....	26
Great Spurred Violet.....	52
Great Water Dock.....	32
Great Willow Herb.....	53
Greek Valerian	59
Green Amaranth	33
Green Ash	58
Green Brier	27
Green Dragon	23
Green Hellebore	36
Gromwell	60
Ground Cherry	62
Ground Hemlock	14
Ground Ivy	60
Groundnut	47, 54
Ground Pink	59
Groundsel	71
Guelder Rose	66
Gypsophila	35
Habenaria	27
Hackberry	31
Hair Grass	18
Hairy Honeysuckle	65
Hairy Sweet Cicely.....	54
Halberd-Leaved Tear- Thumb	32
HALORAGIDACEAE	53
HAMAMELIDACEAE	41
Hamamelis	41
Hardhack	41
Harebell	66
Hare's Ear Mustard.....	39
Hare's Tail	21
Hawkbit	71
Hawkweed	72
Hawkweed Picris	71
Hawthorn	42
Hay-Scented Fern	12
Hazelnut	30
Heart-Leaved Willow	29
Heath Family	56
Hedeoma	61
Hedgehog Grass	17
Hedge Hyssop	63
Hedge Mustard	39
Hedge Nettle	61
Helenium	70
Helianthemum	51
Helianthus	69
Heliopsis	69
Hellebore	25, 36
Helleborus	36
Hemerocallis	25
Hemlock	14, 54
Hemlock Parsley	55

	Page
Hemp	31, 58
Hemp Nettle	61
Henbit	61
Hepatica	36
Heracleum	55
Herb Robert	47
Hercules Club	53
Herd's Grass	18
Hesperis	39
Heteranthera	24
Heuchera	41
Hickory	29
Hieracium	72
High Blueberry	57
High Mallow	51
Highwater Shrub	69
Hoary Pea	46
Hoary Vervain	60
Hobble-Bush	66
Hog Peanut	47
Holcus	18
Holly	49
Holly Family	49
Honewort	54
Honey Locust	45
Honeysuckle Family	65
Honeysuckle	65
Hooked Crowfoot	36
Hop	31
Hop Clover	46
Hop Hornbeam	30
Hop Tree	48
Hordeum	20
Hornbeam	30
Horned Pondweed	15
Hornwort	35
Hornwort Family	35
Horse Balm	62
Horse Chestnut	50
Horse Gentian	65
Horse Mint	61
Horse Nettle	62
Horseradish	39
Horsetail	13
Horse-Weed	72
Hound's Tongue	59
Houstonia	65
Huckleberry	57
Humulus	31
Hydrangea	41
Hydrastis	37
HYDROCHARITACEAE	16
Hydrocotyle	54
HYDROPHYLLACEAE	59
Hydrophyllum	59
HYPERICACEAE	51
Hypericum	51
Hypoxis	27
Hystrix	20

	Page
Ilex	49
ILLECEBRACEAE	33
Ilysanthes	63
Impatiens	50
Imperatoria	55
Indian Bean	64
Indian Cucumber Root.....	26
Indian Hemp	58
Indian Mallow	51
Indian Physic	42
Indian Pipe	56
Indian Plantain	70
Indian Rice	17
Indian Tobacco	67
Indian Turnip	23
Interrupted Fern	13
Inula	69
Ipomoea	59
IRIDACEAE	27
Iris Family	27
Iris	27
Ironweed	67
Ironwood	30
Isoetes	14
Iva	69
Ivy	63
Jack-in-the-Pulpit	23
Jamestown Weed	62
Jeffersonia	37
Jersey Pine	14
Jerusalem Artichoke	69
Jerusalem Oak	33
Jewelweed	50
Joe-Pye Weed	67
JUGLANDACEAE	29
Juglans	29
JUNCACEAE	25
Juncus	25
JUNCAGINACEAE	15
June Berry	42
June Grass	19
Juniper	15
Juniperus	15
Kalmia	56
Kenilworth Ivy	63
Kentucky Blue Grass.....	19
King Devil	72
Kinnikinnik	55
Knautia	66
Knawel	33
Knotweed	32
Knotweed Family	33
Koeleria	18
Krigia	71
LABIATAE	60
Labrador Tea	56
Lactuca	72
Lady Fern	11

	Page
Lady's Slipper	27
Lady's Sorrel	47
Lady's Thumb	32
Lady's Tresses	28
Lamb's Quarters	33
Lamium	61
Lance-Leaved Violet	52
Laportea	31
Lappula	60
Larch	14
Larger Blue Flag	27
Larger Withe Rod	66
Large Cranberry	57
Large-Toothed Aspen	29
Larix	14
Larkspur	37
Late Low Blueberry.....	57
Lathyrus	47
LAURACEAE	38
Laurel	56
Laurel Family	38
Leafcup	69
Leatherleaf	57
Leatherwood	52
Lechea	51
Ledum	56
Leek	25
Leersia	17
LEGUMINOSAE	45
Lemna	24
LEMNACEAE	24
LENTIBULARIACEAE	64
Leontodon	71
Leonurus	61
Lepidium	38
Lespedeza	46
Lettuce	72
Levisticum	55
Liatris	67
Ligustrum	58
LILIACEAE	25
Lilium	26
Lily Family	25
Lily	25, 35
Lily of the Valley.....	26
LIMNANTHACEAE	49
Limnobium	16
LINACEAE	47
Linaria	63
Linden	50
Linden Family	50
Linnaea	65
Linum	47
Lion's Foot	72
Liparis	28
Liriodendron	37
Listera	28
Lithospermum	60
Live-Forever	40
Liverleaf	36

	Page
Lobelia	66, 67
Lobelia Family	66
LOBELIACEAE	66
Locust	45
Lolium	20
Lombardy Poplar	29
Long Beech Fern.....	11
Long-Leaved Pondweed	15
Long-Spurred Violet	52
Lonicera	65
Loosestrife	53, 57
Loosestrife Family	53
Lopseed	64
Lopseed Family	64
LORANTHACEAE	31
Lousewort	63
Lovage	55
Love-in-the-Mist	37
Low Black Blueberry.....	57
Low Cudweed	69
Low Hop Clover.....	46
Low Spear Grass.....	19
Low Sweet Blueberry.....	57
Ludwigia	53
Lungwort	60
Lupine	45
Lupinus	45
Luzula	25
Lychnis	34
Lycium	62
LYCOPODIACEAE	13
Lycopodium	13
Lycopus	61
Lygodium	12
Lyonia	56
Lysimachia	57
LYTHRACEAE	53
Lythrum	53
Madder Family	65
Mad-Dog Skullcap	60
Magnolia	37
Magnolia Family	37
MAGNOLIACEAE	37
Maianthemum	26
Maidenhair Fern	11
Male Berry	56
Mallow	51
Mallow Family	51
Malva	51
MALVACEAE	51
Mandrake	37
Manna Grass	19
Maple	49, 50
Maple Family	49
Maple-Leaved Goosefoot....	33
Marigold	69
Marsh Bluebell	66
Marsh Cress	39
Marsh Elder	69

	Page
Marsh Mallow	51
Marsh Marigold	36
Marsh Potentilla	44
Marsh Saint John's Wort...	51
Marsh Speedwell	63
Martynia	64
Martynia Family	64
MARTYNIACEAE	64
Matricaria	70
Matrimony Vine	62
May Apple	37
Mayflower	57
Mayweed	70
Mazzard	45
Meadow Fescue	19
Meadow Grass	19
Meadow Parsnip	55
Meadow Rue	36
Meadow Sweet	41
Medeola	26
Medicago	46
Medick	46
Melampyrum	63
Melanthium	25
Melilot	46
Helilotus	46
Melissa	61
Menispermum	37
MENISPERMACEAE	37
Mentha	61
Menyanthes	58
Menziesia	56
Mermaid Weed	53
Mertensia	60
Mexican Tea	33
Mezereum Family	52
Microstylis	28
Mild Water Pepper.....	32
Milfoil	70
Milium	17
Milk Purslane	48
Milk Vetch	46
Milkweed	58, 59
Milkweed Family	58
Milkwort	48
Milkwort Family	48
Millet	16, 17
Millet Grass	17
Millspaugh's Blackberry	44
Mimulus	63
Mint	61
Mint Family	60
Missouri Currant	41
Mistletoe	31
Mistletoe Family	31
Mitchella	65
Mitella	41
Miterwort	41
Mock Pennyroyal	61

	Page		Page
Mole Plant	48	Northern Bedstraw	65
Mollugo	34	Northern Fox Grape.....	50
Monarda	61	Northern Manna Grass.....	19
Moneywort	57	Northern Meadow Grass....	19
Monkey Flower	63	Northern Panicum	16
Monotropa	56	Northern Prickly Ash.....	48
Moonseed	37	Nut Rush	21
Moonseed Family	37	NYCTAGINACEAE	33
Moonwort	13	Nymphaea	35
Moosewood	52	NYMPHAEACEAE	35
Morello Cherry	45	Nyssa	56
Morning Glory	59		
Morus	31	Oak	30
Moss Pink	59	Oakesia	25
Mossy Stonecrop	40	Oak Fern	11
Motherwort	61	Oat	18
Moth Mullein	62	Oat Grass	18
Mountain Alder	30	Oenothera	53
Mountain Ash	42	Oldenlandia	65
Mountain Holly	49	Old-Witch Grass	16
Mountain Laurel	56	OLEACEAE	57
Mountain Maple	49	Olive Family	57
Mountain Mint	61	ONAGRACEAE	53
Mountain Rice	17	One-Flowered Cancer-Root..	64
Mouse-Ear	72	One-Seeded Bur-Cucumber..	66
Mouse-Ear Chickweed	34	Onion	25
Mud Plantain	24	Onoclea	12
Mugwort	70	Ophioglossum	13
Muhlenbergia	17	OPHIOGLOSSACEAE	13
Mulberry	31	Opuntia	52
Mullein	62	Orach	33
Musk Mallow	51	Orange Grass	51
Musquash Root	54	Orange Hawkweed	72
Mustard	39, 40	Orange-Red Lily	26
Mustard Family	38	Orange-Root	37
Myosotis	60	Orchard Grass	19
Myrica	29	ORCHIDACEAE	27
MYRICACEAE	29	Orchis	27
Myriophyllum	53	Orchis Family	27
Myrtle	58	Ornithogalum	26
		OROBANCHACEAE	64
Naiad	15	Orobanche	64
NAJADACEAE	15	Orontium	24
Najas	15	Orpine Family	40
Nanny Berry	66	Oryzopsis	17
Narrow-Leaved Bur-Reed..	15	Osier	28
Neckweed	63	Osmorhiza	54
Nemopanthus	49	Osmunda	13
Nepeta	60	OSMUNDACEAE	13
Nettle	31, 61	Ostrya	30
Nettle Family	31	Oswego Tea	61
New Jersey Tea.....	50	Oxalis	47
Nicandra	62	OXALIDACEAE	47
Nicotiana	62	Ox-Eye	69
Nigella	37	Ox-Eye Daisy	70
Night-Flowering Catchfly...	35	Ox-Tongue	71
Nightshade Family	62	Oxybaphus	33
Nightshade	53, 62	Oyster Plant	71
Nimble Will	17		
Ninebark	41		

	Page
Paint-Brush	72
Painted Trillium	26
Pale Dock	32
Pale Indian Plantain.....	70
Pale Laurel	56
Panax	54
Panic Grass	16
Panicum	16
Pansy	52
Papaver	38
PAPAVERACEAE	38
Paper Birch	30
Paper Mulberry	31
Pappoose Root	37
Parietaria	31
Parsley	55
Parsley Family	54
Parsnip	54, 55
Partridge Berry	65
Partridge Pea	45
Paspalum	16
Pastinaca	55
Pasture Thistle	71
Patience Dock	32
Pea	45, 47
Peach	45
Pearlwort	34
Pearly Everlasting	68
Pedicularis	63
Pellaea	11
Pellitory	31
Peltandra	24
Penny Cress	38
Pennyroyal	60, 61
Pennywort	54
Penstemon	63
Penthorum	40
Pepper-Grass	38
Pepperidge	56
Peppermint	61
Pepper Root	39
Periwinkle	58
Petty Spurge	48
Phalaris	17
Phegopteris	11
Phleum	18
Phlox	59
Phryma	64
PHRYMACEAE	64
Physalis	62
Physocarpus	41
Physostegia	60
Phytolacca	33
PHYTOLACCACEAE	33
Picea	14
Pickrel-Weed	24
Pickrel-Weed Family	24
Picris	71
Pigeon Grape	50
Pignut	30

	Page
Pigweed	33
Pilea	31
Pimpernel	63
Pimpernella	55
Pin Cherry	45
PINACEAE	14
Pineapple Weed	70
Pine	14
Pine Family	14
Pine Sap	56
Pink	35, 59
Pink Family	34
Pink Fleabane	68
Pinus	14
Pinweed	51
Pinxter Flower	56
Pipewort Family	24
Pipsissewa	56
Pitcher Plant	40
Pitcher Plant Family.....	40
Pitch Pine	14
Plane-Tree Family	41
PLANTAGINACEAE	64
Plantago	64
Plantain	24, 64
Plantain Family	64
Platanus	41
PLATANACEAE	41
Pleurisy Root	58
Plum	45
Plumed Thistle	71
Plumeless Thistle	71
Poa	19
Podophyllum	37
Pogonia	28
Poison Dogwood	49
Poison Elder	49
Poison Hemlock	54
Poison Ivy	49
Poison Oak	49
Poison Sumach	49
Poke	33
Pokeweed Family	33
Poke Milkeed	59
Polanisia	40
POLEMONIACEAE	59
Polemonium	59
Polemonium Family	59
Polygala	48
POLYGALACEAE	48
POLYGONACEAE	32
Polygonatum	26
Polygonum	32
Polymnia	69
POLYPODIACEAE	11
Polypodium	11
Polypody	11
Polystichum	12
Pondweed	15
Pondweed Family	15

	Page
PONTEDERIAACEAE	24
Pontederia	24
Poplar	29
Poppy	38
Poppy Family	38
Populus	29
Portulaca	35
PORTULACACEAE	35
Potamogeton	15
Potentilla	43, 44
Poverty Grass	17
Prairie Willow	29
Prenanthes	72
Prickly Ash	48
Prickly Gooseberry	41
Prickly Lettuce	72
Prickly Pear	52
Primrose-Leaved Violet....	52
Primrose	53, 57
Primrose Family	57
PRIMULACEAE	57
Prince's Feather	32
Prince's Pine	56
Privet	58
Proserpinaca	53
Prunella	60
Prunus	45
Psedera	50
Ptelea	48
PTERIDOPHYTA	11
Pteris	11
Puccoon	60
Pulse Family	45
Purple Amaranth	33
Purple Avena	44
Purple Azalea	56
Purple Flowering Raspberry	44
Purple Loosestrife	57
Purple Milkweed	58
Purple Stramonium	62
Purplish Cudweed	69
Purslane	35, 48
Purslane Family	35
Purslane Speedwell	63
Putty-Root	28
Pycnanthemum	61
Pyrola	56
Pyrus	42
Quaking Aspen	29
Quassia Family	48
Queen of the Meadow.....	44
Queen of the Prairie.....	44
Quercus	30
Quick Grass	20
Quillwort	14
Rabbit-Foot Clover	45
Radicula	39
Radish	39

	Page
Ragged-Fringed Orchis.....	28
Ragged Robin	34
Ragweed	69
Ragwort	71
Ramsted	63
Ranunculus	35
RANUNCULACEAE	35
Raphanus	39
Raspberry	44
Rattle-Box	45
Rattlesnake Grass	19
Rattlesnake Plantain	28
Rattlesnake-Root	72
Rattlesnake Weed	72
Red Ash	58
Red Baneberry	37
Red-Berried Elder	66
Red Birch	30
Red Cedar	15
Red Cherry	45
Red Clover	45
Red Currant	41
Red-Fruited Hawthorn	42
Red Lychnis	34
Red Maple	50
Red Mulberry	31
Red Oak	30
Red Osier Dogwood.....	55
Red Pine	14
Red Raspberry	44
Red Root	50
Red-Seeded Dandelion	71
Red Spruce	14
Red Top	18, 19
Reed Bent Grass.....	18
Reed Grass	18, 19
Reed Meadow Grass.....	19
RHAMNACEAE	50
Rhododendron	56
Rhodora	56
Rhus	49
Ribes	41
Rib Grass	64
Rich-Weed	62
Ricinus	48
River-Bank Grape	50
River Birch	30
Robinia	46
Robin's Plantain	68
Rock Brake	11
Rock Cress	40
Rocket	39
Rock Maple	50
Rockrose	51
Rockrose Family	51
Roman Wormwood	69
Rosa	45
ROSACEAE	41
Rose	45

	Page
Rose Acacia	46
Rose Family	41
Roseroot	40
Rosin Weed	69
Rough Bedstraw	65
Round-Leaved Cornel	55
Round-Leaved Sundew	40
Royal Fern	13
RUBIACEAE	65
Rubus	44
Rudbeckia	69
Rue	46
Rue Anemone	36
Rue Family	48
Rumex	32
Rush	13, 21, 25
Rush Family	25
Rush Grass	18
Russian Thistle	33
RUTACEAE	48
Rye	20
Rye Grass	20
Rynchospora	21
Sabatia	58
Sage	60, 61
Sagina	34
Sagittaria	16
Saint John's Wort	51
Saint John's Wort Family ..	51
SALICACEAE	28
Salix	28
Salsify	71
Salsola	33
Saltwort	33
Salvia	61
Sambucus	66
Sandalwood Family	31
Sand-Bar Willow	29
Sandbur	17
Sand Cherry	45
Sand Spurrey	34
Sandwort	34
Sanguinaria	38
Sanguisorba	44
Sanicula	54
SANTALACEAE	31
SAPINDACEAE	50
Saponaria	35
Sarracenia	40
SARRACENIACEAE	40
Sarsaparilla	54
Sassafras	38
Saw Brier	27
SAXIFRAGACEAE	40
Saxifraga	40
Saxifrage	40
Saxifrage Family	40
Scarlet Lychnis	34
Scarlet Oak	30

	Page
Scheuchzeria	15
SCHIZAEACEAE	12
Scirpus	21
Scleranthus	33
Scleria	21
Scorpion Grass	60
Scouring Rush	13
Scrophularia	63
SCROPHULARIACEAE	62
Scrub Oak	30
Scrub Pine	14
Scutellaria	60
Secale	20
Sedge	21
Sedge Family	20
Sedum	40
Seedbox	53
Selaginella	14
SELAGINELLACEAE	14
Self Heal	60
Senecio	71
Senna	45
Sensitive Fern	12
Sensitive Plant	45
Sericocarpus	68
Service Berry	42
Setaria	17
Shad Bush	42
Sheep Laurel	56
Sheep's Fescue	19
Sheep Sorrel	32
Shell-Bark Hickory	29
Shepherd's Purse	39
Shield Fern	12
Shining Willow	28
Shin Leaf	56
Showy Orchis	27
Shrubby Bitter-Sweet	49
Shrubby Cinquefoil	44
Sickle Pod	40
Sicyos	66
Side-Saddle Flower	40
Silene	34
Silky Cornel	55
Silky Willow	29
Silphium	69
Silver-Leaved Poplar	29
Silver Maple	50
Silvery Cinquefoil	43
SIMARUBACEAE	48
Simple-Stemmed Bur-Reed ..	15
Sisymbrium	39
Sisyrinchium	27
Sium	54
Skullcap	60
Skunk Cabbage	24
Skunk Currant	41
Sleepy Catchfly	34
Slender Gerardia	63
Slender Nettle	31

	Page
Slippery Elm	31
Smaller Bladderwort	64
Smaller Spearwort	36
Small Alyssum	38
Small Cranberry	57
Small-Flowered Crowfoot..	36
Small Solomon's Seal.....	26
Smartweed	32
Smilacina	26
Smilax	27
Smooth Alder	30
Smooth False Foxglove....	63
Smooth Gooseberry	41
Smooth Sumach	49
Smooth Sweet Cicely.....	54
Smooth Yellow Violet.....	52
Snakehead	63
Snakeroot	37, 54, 67
Sneezeweed	70
Snowberry	65
Soapberry Family	50
Soapwort	35
Soapwort Gentian	58
Solanum	62
SOLANACEAE	62
Solidago	67
Solomon's Seal	26
Sonchus	72
Sorbaria	42
Sorghastrum	16
Sorrel	32
Sour Cherry	45
Southernwood	70
Sow Thistle	72
Spanish Needles	70
SPARGANIACEAE	15
Sparganium	15
Spatter Dock	35
Spear Grass	19
Spearmint	61
Spearwort	36
Speckled Alder	30
Specularia	66
Speedwell	63
Spergula	34
SPERMATOPHYTA	14
Sphenopholis	18
Spice Bush	38
Spiderwort Family	24
Spiked Loosestrife	53
Spikenard	26, 54
Spike Rush	20
Spindle Tree	49
Spiny-Leaved Sow-Thistle..	72
Spiraea	41
Spiranthes	28
Spirodela	24
Spleenwort	11
Sporobolus	18
Spotted Cowbane	54

	Page
Spotted Touch-me-not	50
Spotted Wintergreen	56
Spreading Dogbane	58
Spreading Globe Flower....	36
Spreading Panicum	16
Spring Beauty	35
Spring Cress	39
Spring Vetch	46
Spruce	14
Spurge	48
Spurge Family	48
Spurrey	34
Squaw Root	64
Squaw-Weed	71
Squirrel Corn	38
Squirrel-Tail Grass	20
Stachys	61
Staff Tree	49
Staff Tree Family.....	49
Staghorn Sumach	49
Staphylea	49
STAPHYLEACEAE	49
Star Cucumber	66
Star Flower	57
Star Grass	27
Star of Bethlehem.....	26
Star Thistle	71
Starry Campion	35
Starwort	34
Steeple Bush	41
Steironema	57
Stellaria	34
Stemless Lady's Slipper....	27
Stenophyllus	20
Stickseed	60
Sticktight	70
Stonecrop	40
Stone-Root	42
Storksbill	47
Strawberry	43
Strawberry Blite	33
Streptopus	26
Striped Maple	49
Sugar Maple	50
Sumach	49
Summer Grape	50
Sundew	40
Sundew Family	40
Sundrops	53
Sunflower	69
Swamp Beggar-Ticks	70
Swamp Buttercup	36
Swamp Black Currant.....	41
Swamp Blueberry	57
Swamp Dock	32
Swamp Honeysuckle	56
Swamp Loosestrife	53
Swamp Maple	50
Swamp Milkweed	59
Swamp White Oak	30

	Page
Sweetbrier	45
Sweet Birch	30
Sweet Cherry	45
Sweet Cicely	54
Sweet Clover	46
Sweet Fern	29
Sweet Flag	24
Sweet Gale	29
Sweet Gale Family.....	29
Sweet Scabious	68
Sweet-Scented Bedstraw ..	65
Sweet-Scented Water-Lily..	35
Sweet Vernal Grass.....	17
Sweet Viburnum	66
Sweet Violet	52
Sweet William	35, 59
Switch Grass	16
Sycamore	41
Symphoricarpos	65
Symphytum	60
Symplocarpus	24
Taenidia	55
Tall Bellflower	66
Tall Buttercup	36
Tall Meadow Rue	36
Tall Red Top.....	19
Taller Fescue	19
Tamarack	14
Tanacetum	70
Tansy	70
Taraxacum	71
Tare	46
TAXACEAE	14
Taxus	14
Teaberry	57
Teasel	66
Teasel Family	66
Tephrosia	46
Teucrium	60
Thalictrum	36
Thaspium	55
Thin Grass	18
Thistle	71
Thlaspa	38
Thorn	42
Thorny Amaranth	33
Thoroughwort	67
Three-Seeded Mercury	48
Three-Toothed Cinquefoil..	44
Thuja	14
Thyme	61
THYMELAEACEAE	52
Thyme-Leaved Sandwort...	34
Thyme-Leaved Speedwell...	63
Thymus	61
Tiarella	41
Tickseed	69
Tick Trefoil	46
Tiger Lily	26

	Page
Tilia	50
TILIACEAE	50
Timothy	18
Tinker's Weed	65
Toad Flax	31, 63
Tobacco	62
Toothache Tree	48
Toothwort	39
Touch-me-not Family	50
Tower Mustard	40
Tradescantia	24
Tragopogon	71
Trailing Arbutus	57
Treacle Mustard	39
Tree of Heaven	48
Trichostema	60
Tridens	19
Trientalis	57
Trifolium	45
Trillium	26
Triosteum	65
Triple-Awned Grass	17
Triticum	20
Trollius	36
True Daisy	67
True Water Cress.....	39
Trumpet Honeysuckle	65
Tsuga	14
Tufted Purple Loosestrife..	57
Tulip Tree	37
Tumble Mustard	39
Tumble Weed	33
Turnip	39
Turtlehead	63
Tussilago	70
Twayblade	28
Twin Flower	65
Twinleaf	37
Twisted Stalk	26
Typha	15
TYPHACEAE	15
Ulmus	31
UMBELLIFERAE	54
Unicorn Plant	64
Upland Boneset	67
Urtica	31
URTICACEAE	31
Utricularia	64
Uvularia	25
Vaccinium	57
Vallisneria	16
Velvet Grass	18
Velvet Leaf	51
Venus's Looking Glass.....	66
Veratrum	25
Verbascum	62
Verbena	60
VERBENACEAE	60

	Page
Vernal Grass	17
Vernonia	67
Veronica	63
Vervain	60
Vervain Family	60
Vetch	46
Vetchling	47
Viburnum	66
Vicia	46
Vinca	58
Vine Family	50
Viola	51
VIOLACEAE	51
Violet	26, 39, 51, 52
Violet Family	51
Violet Wood Sorrel	47
Viper's Bugloss	60
Virginia Creeper	50
Virgin's Bower	36
VITACEAE	50
Vitis	50
Waahoo	49
Wake Robin	26
Waldsteinia	43
Walking Leaf	11
Walnut	29
Walnut Family	29
Water Arum	24
Water Beech	30
Water Cress	39
Water Hemlock	54
Water Horehound	61
Waterleaf	59
Waterleaf Family	59
Water Lily	35
Water Lily Family	35
Water Lobelia	67
Water Milfoil	53
Water Milfoil Family	53
Water Parsnip	54
Water Pennywort	54
Water Pepper	32
Water Plantain	16, 36
Water Plantain Family	16
Water Purslane	53
Water Rice	17
Water Shield	35
Water Smartweed	32
Water Speedwell	63
Water Starwort	48
Water Starwort Family	48
Water Weed	16
Water Willow	53, 64
Waxwork	49
Weeping Willow	29
Wheat	20, 63
Wheat Grass	20
White Ash	57
White Birch	30

	Page
White Clover	45
White Daisy	70
White Elm	31
White Grass	17
White-Heart Hickory	29
White Maple	50
White Mulberry	31
White Mullein	62
White Mustard	39
White Oak	30
White Pine	14
White Snakeroot	67
White Swamp Honeysuckle	56
White Sweet Clover	46
White-Topped Aster	68
White Vervain	60
White Willow	29
White Winged Orchis	28
Whitewood	37
Whitlow Grass	38
Wild Allspice	38
Wild Balsam Apple	66
Wild Bean	47
Wild Bergamot	61
Wild Black Currant	41
Wild Black Cherry	45
Wild Chamomile	70
Wild Coffee	65
Wild Comfrey	59
Wild Garlic	25
Wild Ginger	32
Wild Hydrangea	41
Wild Indigo	45
Wild Leek	25
Wild Lettuce	72
Wild Liquorice	65
Wild Oat Grass	18
Wild Onion	25
Wild Orange-Red Lily	26
Wild Pansy	52
Wild Pear	42
Wild Peppergrass	38
Wild Pink	35
Wild Plum	45
Wild Raisin	66
Wild Red Cherry	45
Wild Red Raspberry	44
Wild Rye	20
Wild Senna	45
Wild Sensitive Plant	45
Wild Sweet William	59
Wild Teasel	66
Wild Tobacco	62
Wild Yam-Root	27
Wild Yellow Lily	26
Willow	28, 29
Willow Herb	53
Wind Flower	36
Wineberry	44
Winter Cress	39

	Page
Wintergreen	57
Winter Wheat	20
Wire Grass	19
Witch Hazel	41
Witch Hazel Family	41
Withe-Rod	66
Wood Anemone	36
Wood Betony	63
Woodbine	50
Wood Fern	12
Wood Nettle	31
Wood Reed Grass.....	18
Wood Rush	25
Wood Sage	60
Woodsia	12
Wood Sorrel	47
Wood Sorrel Family.....	47
Woodwardia	11
Wool Grass	21
Wormseed	33
Worm-Seed Mustard	39
Wormwood	69, 70
Xanthium	69
Xanthoxylum	48
XYRIDACEAE	24
Xyris	24
Yam	27

	Page
Yam Family	27
Yard Grass	19
Yarrow	70
Yellow Alyssum	38
Yellow Adder's Tongue....	26
Yellow Birch	30
Yellow Clover	46
Yellow Cress	39
Yellow Daisy	69
Yellow Dock	32
Yellow-Eyed Grass Family.	24
Yellow-Fringed Orchis	28
Yellow-Fruited Hawthorn...	42
Yellow Iris	27
Yellow Lady's Slipper.....	27
Yellow Lily	26
Yellow Pond Lily.....	35
Yellow Poplar	37
Yellow Puccoon	37
Yellow Rocket	39
Yellow Sweet Clover	46
Yellow Violet	52
Yew Family	14
Zannichellia	15
Zizania	17
Zizia	54

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